



VISUAL NO. 1

SUBMARINE PHYSIOGRAPHY OF THE GULF OF MEXICO

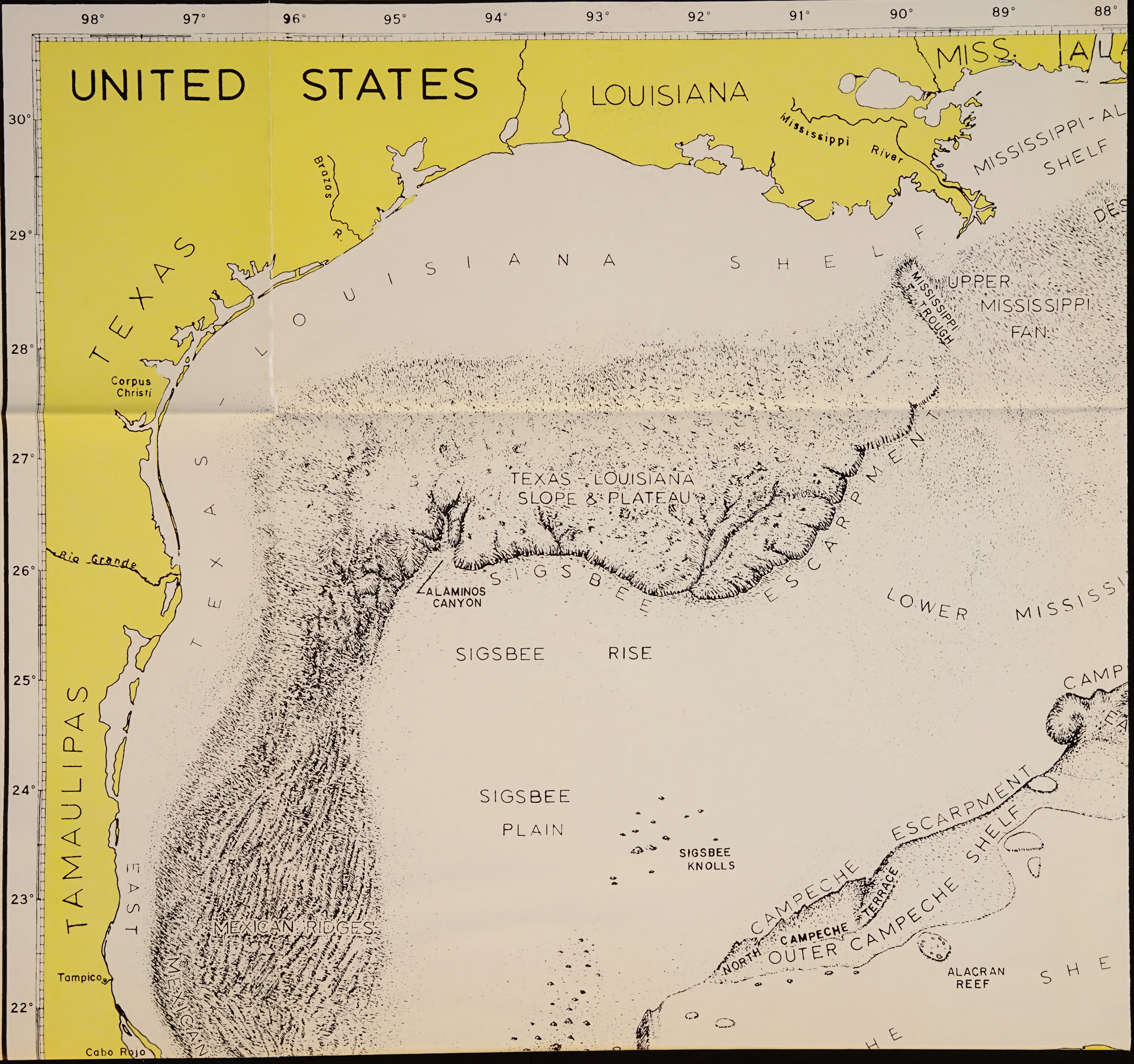
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BUREAU OF LAND MANAGEMENT

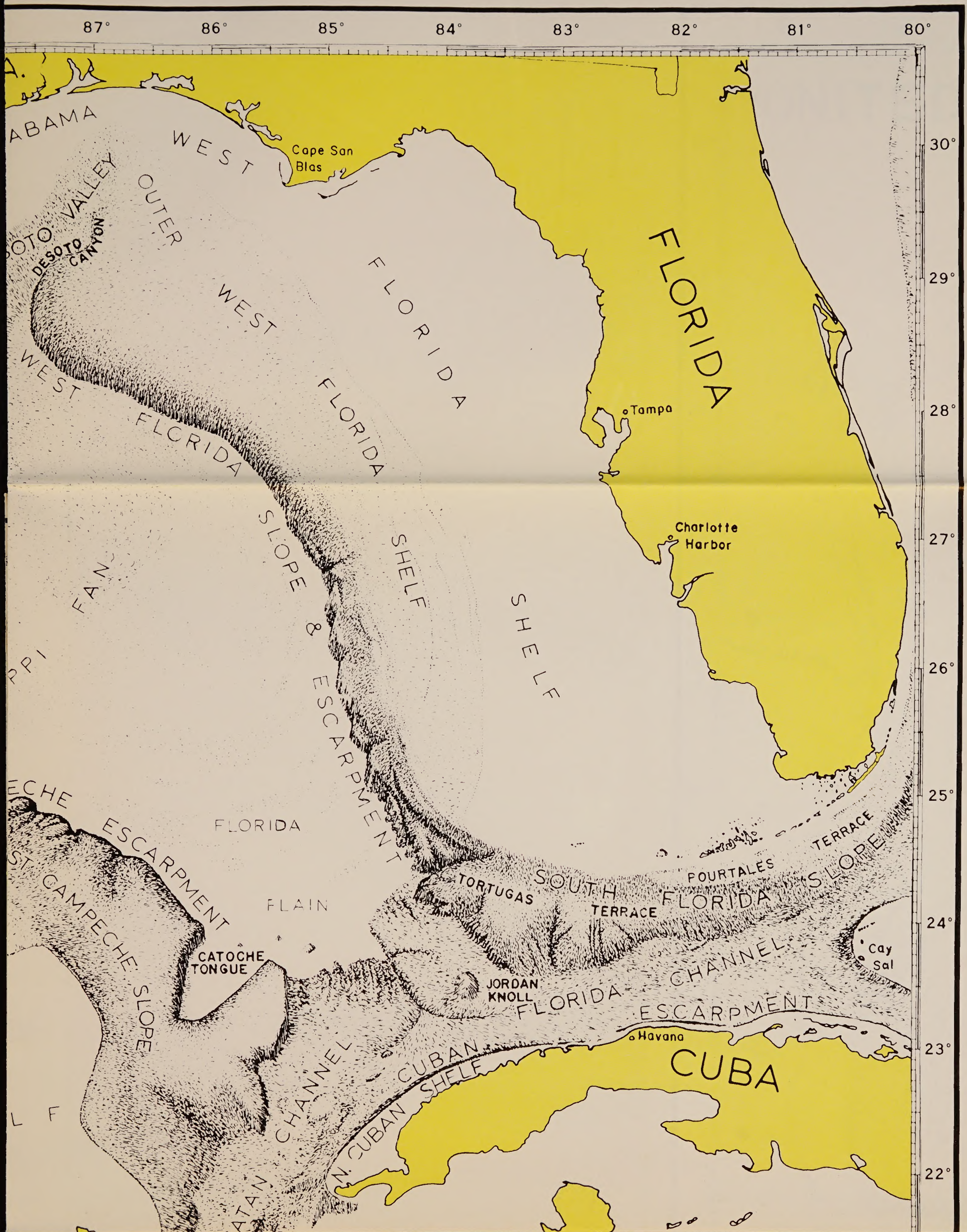
INFORMATION BY
U.S. NAVAL OCEANOGRAPHIC OFFICE
WASHINGTON, D. C.

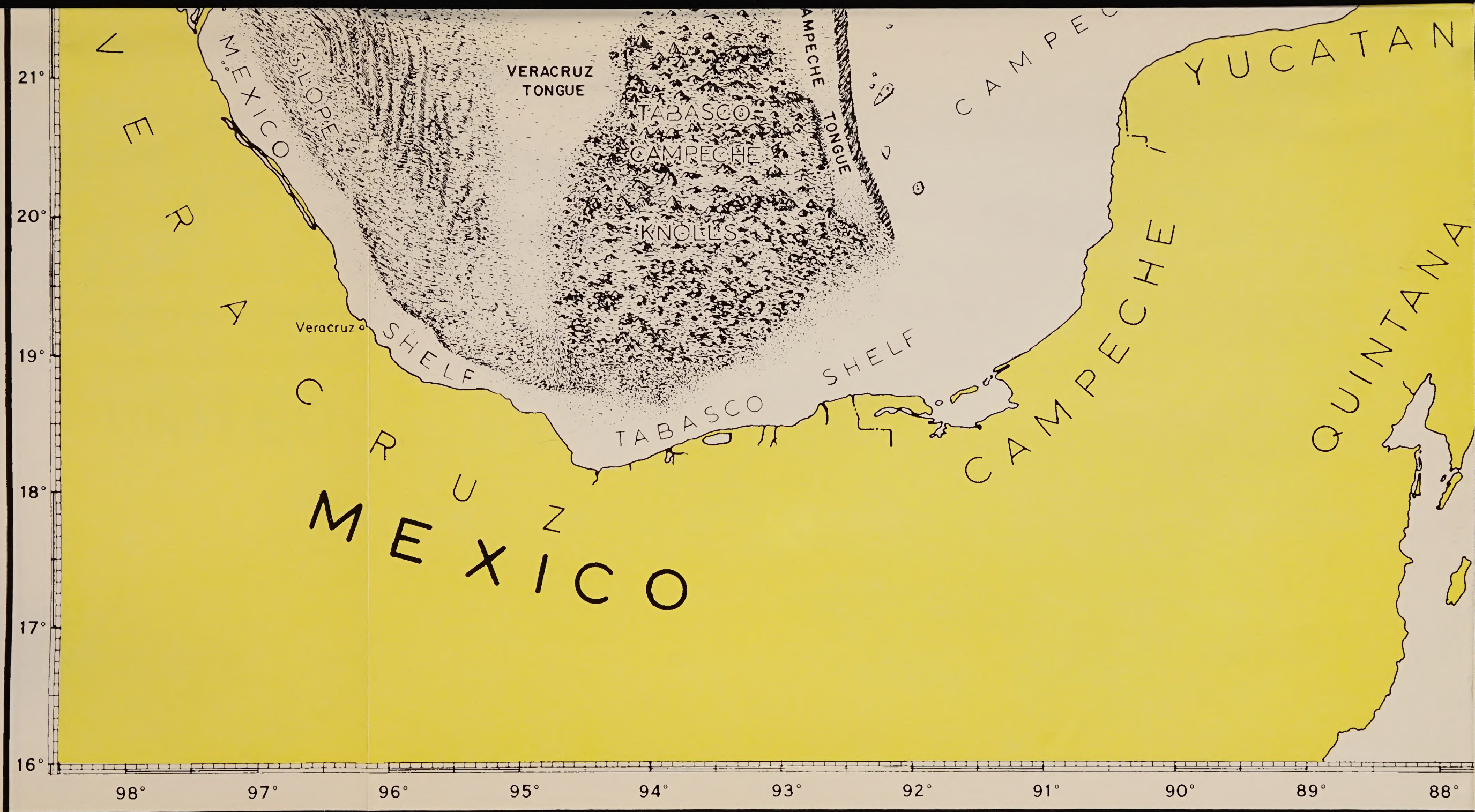
BY: R.N. BERGANTINO, CODE 9310, JULY 1969
COMPILED FROM BATHYMETRIC PROFILES OBTAINED BY THE USNS KANE
FROM SURVEYS JAN-APRIL 1969 (15,000 MILES OF TRACK)

OTHER SOURCES OF DATA:
BATHYMETRIC PROFILES OBTAINED BY THE USS SAN PABLO, 1968 & USNS KEATHLEY, 1968
Bryant, W.R., Antoine, J.; Ewing, M.; and Jones, Structure of Mexican Continental Shelf and Slope, Gulf of Mexico, AAPG. V. 52, No. 7, (July 1968) pp. 1204-1228
Uchupi, E.; and Emery, K.O. Structure of Continental Margin off Gulf Coast of United States, AAPG. V. 52, No. 7 (July 1968) pp. 1162-1193
Worzel, J.L.; Leyden, R.; and Ewing, M., Newly Discovered Diapirs in Gulf of Mexico, AAPG. V. 52, No. 7 (July 1968) pp. 1194-1203

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SUBMARINE PHYSIOGRAPHY OF THE GULF OF MEXICO

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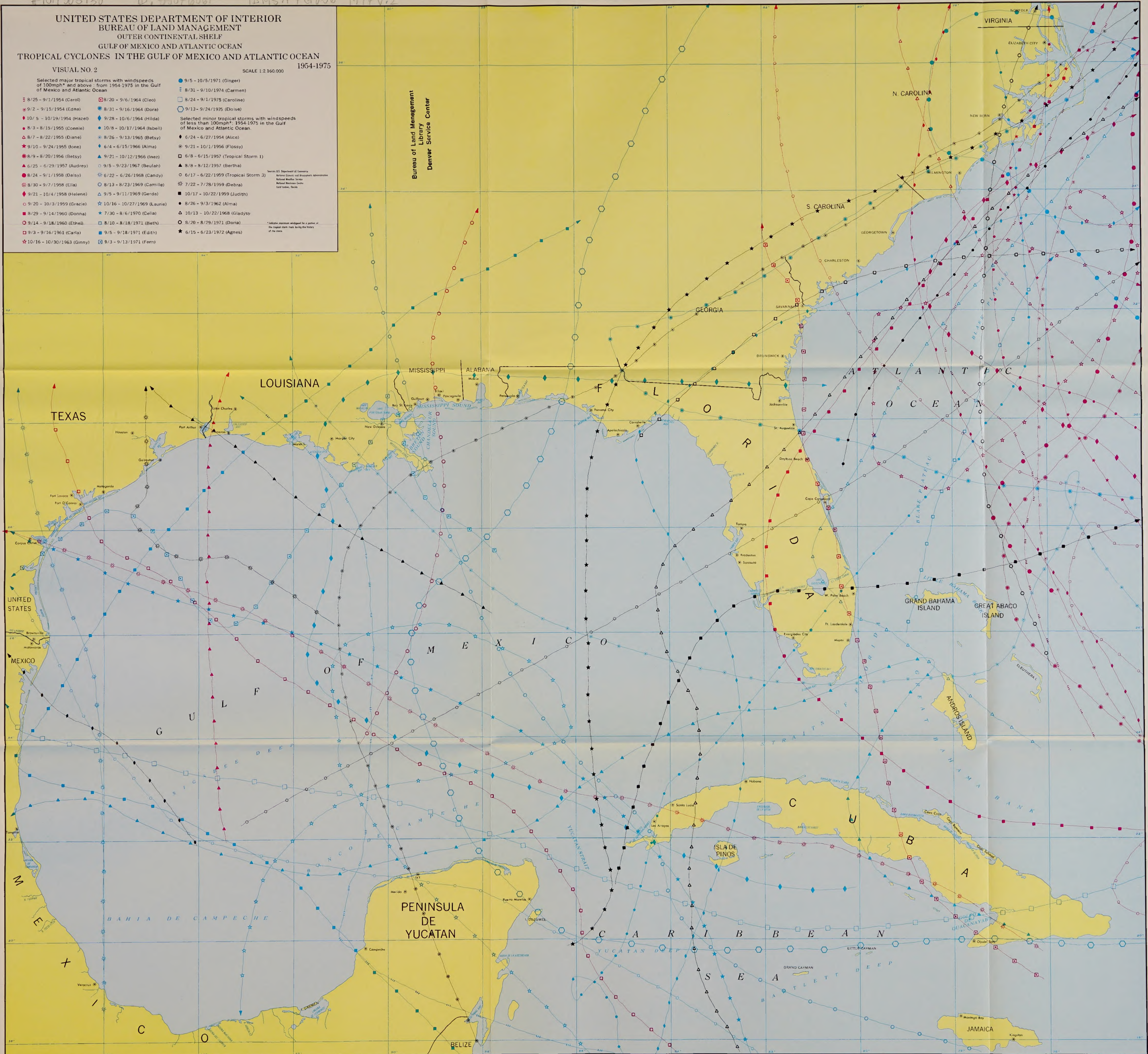
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UNITED STATES DEPARTMENT OF INTERIOR
BUREAU OF LAND MANAGEMENT
OUTER CONTINENTAL SHELF
GULF OF MEXICO AND ATLANTIC OCEAN
TROPICAL CYCLONES IN THE GULF OF MEXICO AND ATLANTIC OCEAN
VISUAL NO. 2
1954-1975

SCALE 1:2,160,000

- Selected major tropical storms with windspeeds of 100mph* and above from 1954-1975 in the Gulf of Mexico and Atlantic Ocean
- | | | |
|----------------------------|-----------------------------|-------------------------------------|
| 8/25 - 9/1/1954 (Carol) | 8/20 - 9/6/1964 (Cleo) | 9/5 - 10/5/1971 (Ginger) |
| 9/2 - 9/15/1954 (Edna) | 8/31 - 9/16/1964 (Dora) | 8/31 - 9/10/1974 (Carmen) |
| 10/5 - 10/19/1954 (Hazel) | 9/28 - 10/6/1964 (Hilda) | 8/24 - 9/1/1975 (Caroline) |
| 8/3 - 8/15/1955 (Connie) | 10/8 - 10/17/1964 (Isbell) | 9/13 - 9/24/1975 (Eloise) |
| 8/7 - 8/22/1955 (Diane) | 8/26 - 9/13/1965 (Betsy) | 6/24 - 6/27/1954 (Alice) |
| 9/10 - 9/24/1955 (Ione) | 6/4 - 6/15/1966 (Alma) | 9/21 - 10/1/1956 (Flossy) |
| 8/9 - 8/20/1956 (Betsy) | 9/21 - 10/12/1966 (Inez) | 6/8 - 6/15/1957 (Tropical Storm 1) |
| 6/25 - 6/29/1957 (Audrey) | 9/5 - 9/23/1967 (Beulah) | 8/8 - 8/12/1957 (Bertha) |
| 8/24 - 9/1/1958 (Daisy) | 6/22 - 6/26/1968 (Candy) | 6/17 - 6/22/1959 (Tropical Storm 3) |
| 8/30 - 9/7/1958 (Ella) | 8/13 - 8/23/1969 (Camille) | 7/22 - 7/28/1959 (Debra) |
| 9/21 - 10/4/1958 (Helena) | 9/5 - 9/11/1969 (Gerda) | 10/17 - 10/22/1959 (Judith) |
| 9/20 - 10/3/1959 (Gracie) | 10/16 - 10/27/1969 (Laurie) | 8/26 - 9/3/1962 (Alma) |
| 8/29 - 9/14/1960 (Donna) | 7/30 - 8/6/1970 (Celia) | 10/13 - 10/22/1968 (Gladys) |
| 9/14 - 9/18/1960 (Ethel) | 8/10 - 8/18/1971 (Beth) | 8/20 - 8/29/1971 (Doria) |
| 9/3 - 9/16/1961 (Carla) | 9/5 - 9/18/1971 (Edith) | 6/15 - 6/23/1972 (Agnes) |
| 10/16 - 10/30/1963 (Ginny) | 9/3 - 9/13/1971 (Fern) | |
- Selected minor tropical storms with windspeeds of less than 100mph* 1954-1975 in the Gulf of Mexico and Atlantic Ocean
- *Indicates maximum wind speed for a portion of the storm track during the history of the storm

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BUREAU OF LAND MANAGEMENT
OUTER CONTINENTAL SHELF
GULF OF MEXICO AND ATLANTIC OCEAN
TROPICAL CYCLONES IN THE GULF OF MEXICO AND ATLANTIC OCEAN
VISUAL NO. 2
SCALE 1:2,160,000
1954-1975

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| 9/3 - 9/16/1961 (Carla) | 9/5 - 9/18/1971 (Edith) |
| 10/16 - 10/30/1963 (Ginny) | 9/3 - 9/13/1971 (Fern) |

- | |
|----------------------------|
| 9/5 - 10/5/1971 (Ginger) |
| 8/31 - 9/10/1974 (Carmen) |
| 8/24 - 9/1/1975 (Caroline) |
| 9/13 - 9/24/1975 (Eloise) |

Selected minor tropical storms with windspeeds of less than 100mph*; 1954-1975 in the Gulf of Mexico and Atlantic Ocean.

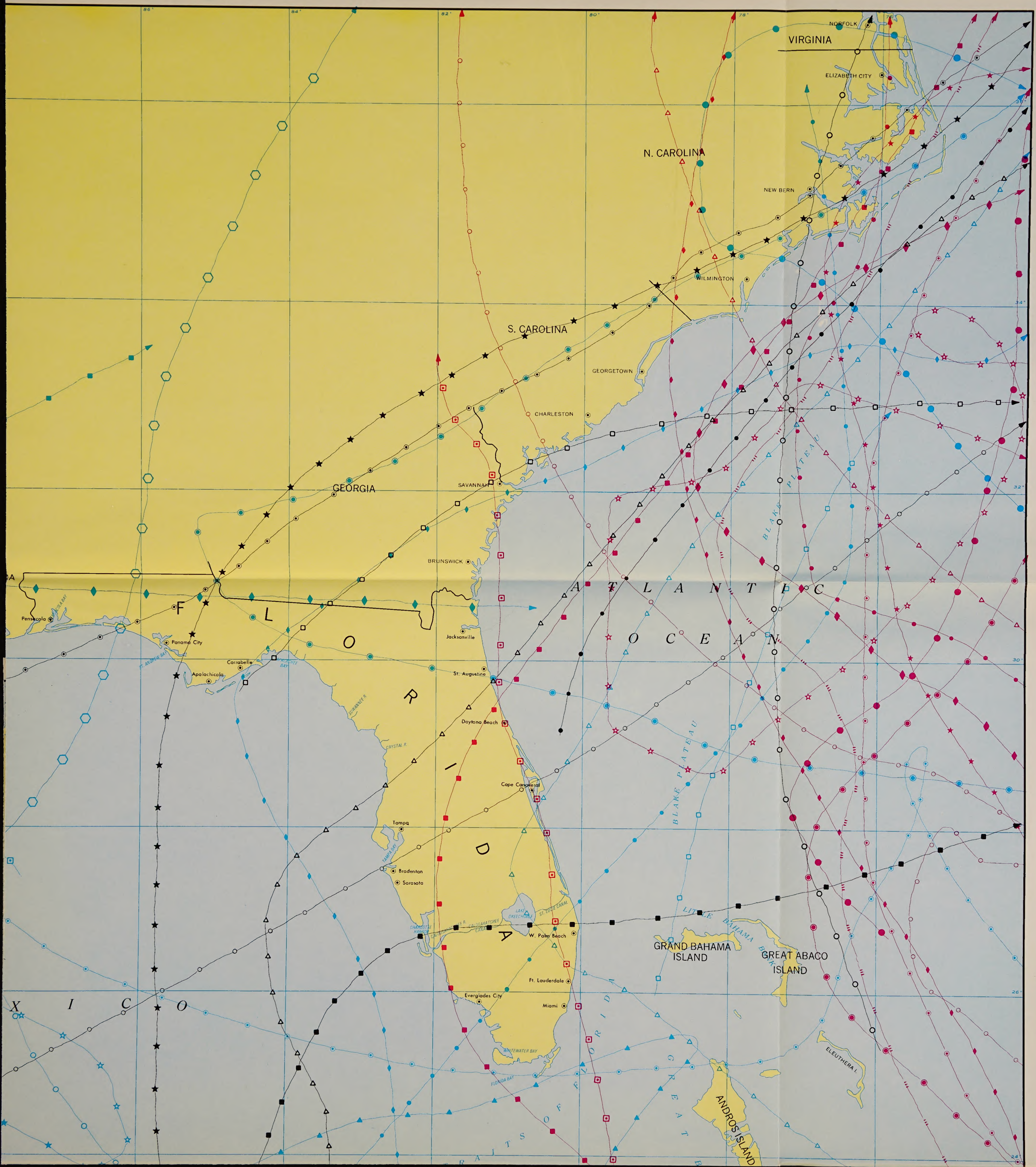
- | |
|-------------------------------------|
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| 9/21 - 10/1/1956 (Flossy) |
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| 10/13 - 10/22/1968 (Gladys) |
| 8/20 - 8/29/1971 (Doria) |
| 6/15 - 6/23/1972 (Agnes) |

Sources: U.S. Department of Commerce
National Oceanic and Atmospheric Administration
National Weather Service
National Hurricane Center
Carol Gables, Florida

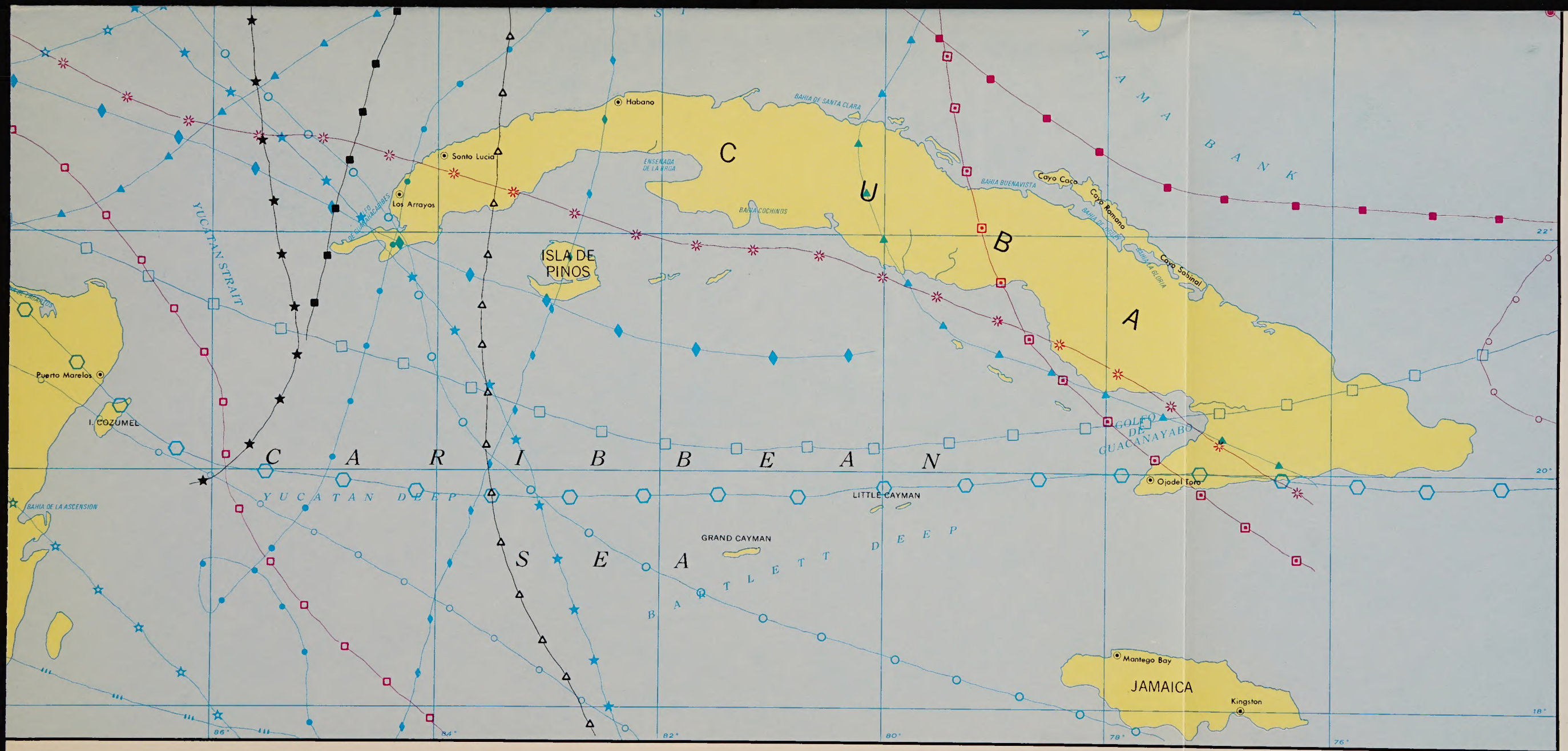
* Indicates maximum windspeed for a portion of the tropical storm track during the history of the storm.

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UNITED STATES DEPARTMENT OF INTERIOR
BUREAU OF LAND MANAGEMENT
OUTER CONTINENTAL SHELF
GULF OF MEXICO AND ATLANTIC OCEAN
PHYTOPLANKTON PRODUCTION¹ AND BENTHIC PLANT
DISTRIBUTION
VISUAL NO. 3

SCALE 1:2,160,000

mgC/m²/d



GULF OF MEXICO ZOOPLANKTON DISTRIBUTION²
51 200 mg/m³ FOR ENTIRE GULF

¹ AFTER KOBLITZ, MISHKE, VOLKOVENSKY AND KABANOVA, 1969

² AFTER V. G. BOGOROV ET AL. 1968

³ AFTER S. A. EARLE, 1972

*SEE NOTE

Seagrasses found throughout the Gulf of Mexico include: *Thalassia testudinum*, *Ruppia maritima*, *Halodule wrightii*, *Posidonia oceanica*, *Cymodocea rotundifolia*, *Halodule wrightii*, *Posidonia oceanica*, *Cymodocea rotundifolia*.

*Some parts of the Gulf have been intensively studied, others have received little or no attention. The numbers of records given for each area is the number of species (this is reported, the estimated number represents an attempt to predict the actual diversity, based upon knowledge of the physical characteristics of the environment and known species diversity in similar environments). The areas with the greatest discrepancies between numbers of species recorded and numbers estimated to occur are the least studied.

Distribution and Diversity of Benthic Plants
Area inhabited by benthic plants

AREA A

258 species recorded
Chlorophyta 85
Cyanophyta 6
Rhodophyta 41
Tracheophyta 120
Tracheophyta 6
(600+ species estimated to occur in the area)

AREA B

217 species recorded
Chlorophyta 42
Cyanophyta 14
Rhodophyta 33
Tracheophyta 121
Tracheophyta 5
(400+ species estimated to occur in the area)

AREA C

178 species recorded
Chlorophyta 45
Cyanophyta 21
Rhodophyta 23
Tracheophyta 86
Tracheophyta 4
(200+ species estimated to occur in the area)

AREA D

126 species recorded
Chlorophyta 43
Cyanophyta 21
Rhodophyta 24
Tracheophyta 42
Tracheophyta 6
(200+ species estimated to occur in the area)

AREA E

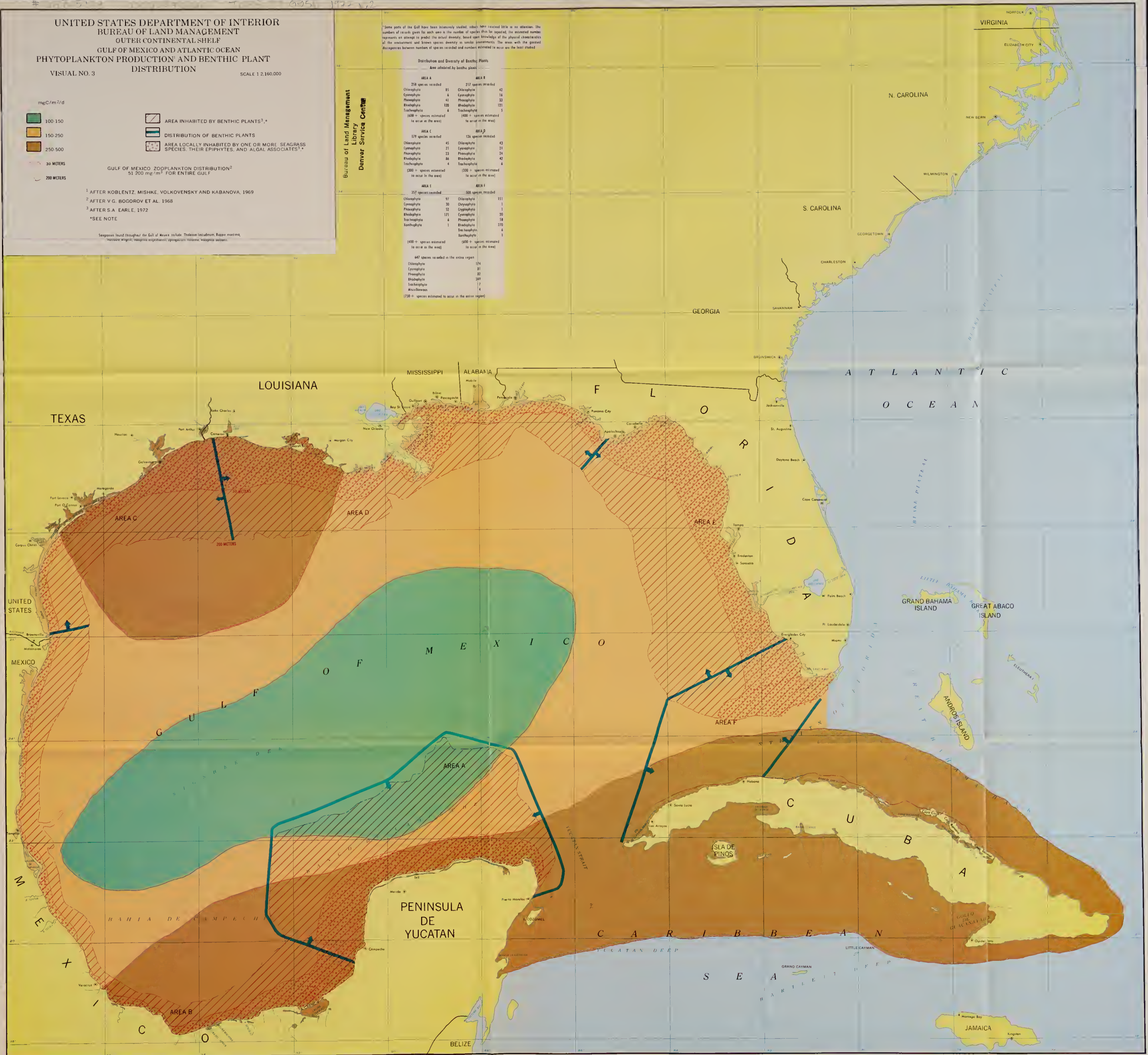
217 species recorded
Chlorophyta 97
Cyanophyta 30
Rhodophyta 52
Tracheophyta 171
Tracheophyta 4
Tracheophyta 1
(600+ species estimated to occur in the area)

AREA F

508 species recorded
Chlorophyta 131
Cyanophyta 1
Cyanophyta 1
Cyanophyta 1
Cyanophyta 1
Cyanophyta 1
(600+ species estimated to occur in the area)

847 species recorded in the entire region

Chlorophyta 174
Cyanophyta 81
Rhodophyta 80
Tracheophyta 249
Tracheophyta 7
Tracheophyta 4
(750+ species estimated to occur in the entire region)



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UNITED STATES DEPARTMENT OF INTERIOR
BUREAU OF LAND MANAGEMENT
OUTER CONTINENTAL SHELF
GULF OF MEXICO AND ATLANTIC OCEAN
PHYTOPLANKTON PRODUCTION¹ AND BENTHIC PLANT
DISTRIBUTION

VISUAL NO. 3

SCALE 1:2,160,000



- ¹ AFTER KOBLENTZ, MISHKE, VOLKOVENSKY AND KABANOVA, 1969
² AFTER V.G. BOGOROV ET AL. 1968
³ AFTER S.A. EARLE, 1972
*SEE NOTE

Seagrasses found throughout the Gulf of Mexico include: *Thalassia testudinum*, *Ruppia maritima*, *Halodule wrightii*, *Halophila engelmannii*, *Syringodium filiforme*, *Halophila boilloni*.

*Some parts of the Gulf have been intensively studied; others have not. Numbers of records given for each area is the number of species known to occur in the area. This represents an attempt to predict the actual diversity, based upon knowledge of the environment and known species diversity in similar environments. Discrepancies between numbers of species recorded and numbers estimated to occur in the area are noted.

Distribution and Diversity of Benthic Plants

Area inhabited by benthic plants

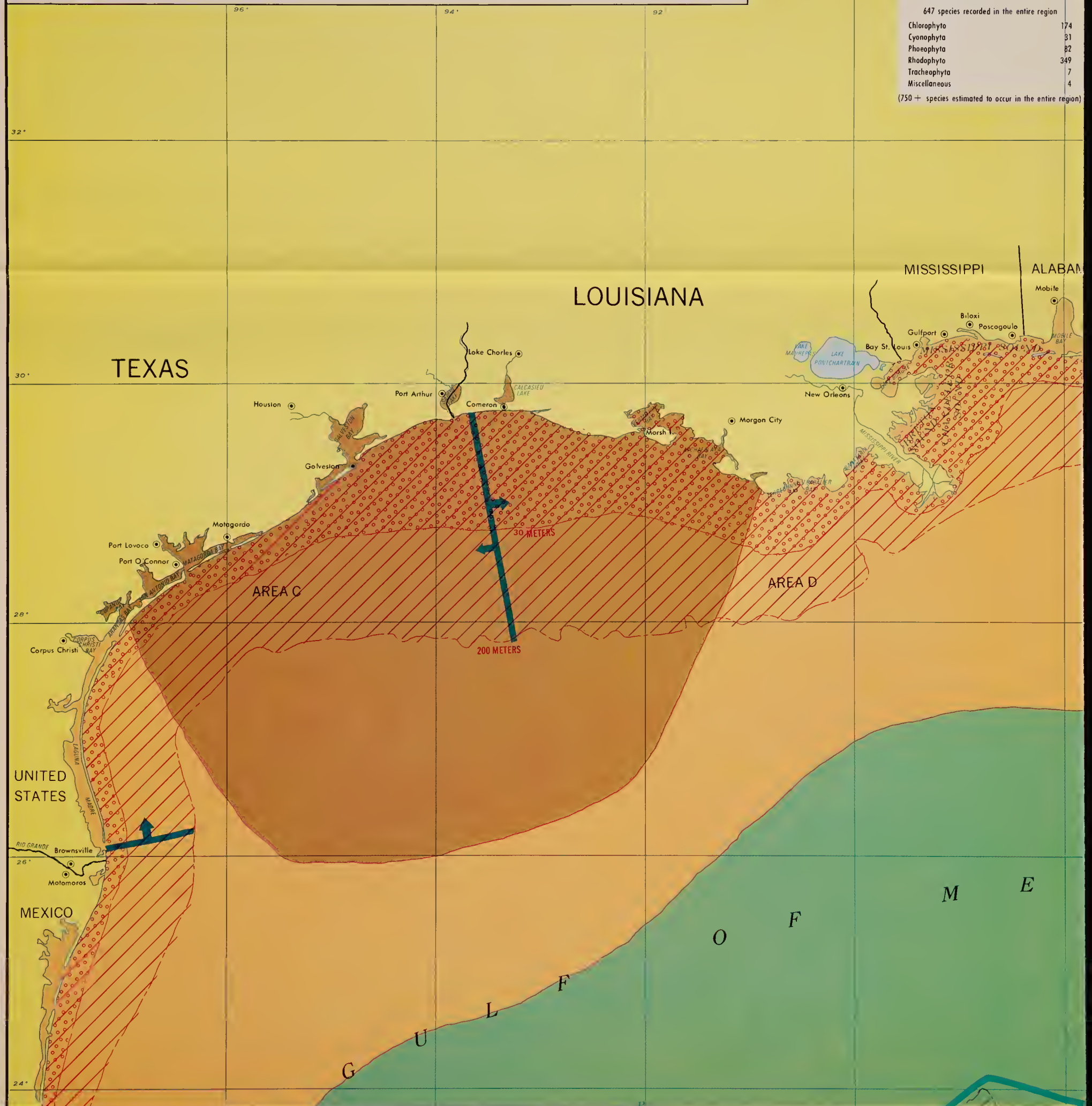
AREA A	AREA B
258 species recorded	217 species recorded
Chlorophyta 85	Chlorophyta 85
Cyanophyta 6	Cyanophyta 6
Phaeophyta 41	Phaeophyta 41
Rhodophyta 120	Rhodophyta 120
Tracheophyta 6	Tracheophyta 6
(600 + species estimated to occur in the area)	(400 + species estimated to occur in the area)

AREA C	AREA D
179 species recorded	136 species recorded
Chlorophyta 45	Chlorophyta 45
Cyanophyta 21	Cyanophyta 21
Phaeophyta 23	Phaeophyta 23
Rhodophyta 86	Rhodophyta 86
Tracheophyta 4	Tracheophyta 4
(300 + species estimated to occur in the area)	(300 + species estimated to occur in the area)

AREA E	AREA F
357 species recorded	508 species recorded
Chlorophyta 97	Chlorophyta 97
Cyanophyta 30	Chlorophyta 30
Phaeophyta 52	Chlorophyta 31
Rhodophyta 171	Cyanophyta 82
Tracheophyta 6	Cyanophyta 349
Xanthophyta 1	Phaeophyta 7
	Rhodophyta 4
	Tracheophyta 174
	Xanthophyta 31
(400 + species estimated to occur in the area)	(600 + species estimated to occur in the area)

647 species recorded in the entire region	
Chlorophyta 174	
Cyanophyta 31	
Phaeophyta 82	
Rhodophyta 349	
Tracheophyta 7	
Miscellaneous 4	
(750 + species estimated to occur in the entire region)	

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received little or no attention. The
as for reported; the estimated number
nowledge of the physical characteristics
nments. The areas with the greatest
ated to occur are the least studied.

nts

Recorded

42
16
33
121
5

Estimated

(e area)

Recorded

43
21
24
42
6

Estimated

(e area)

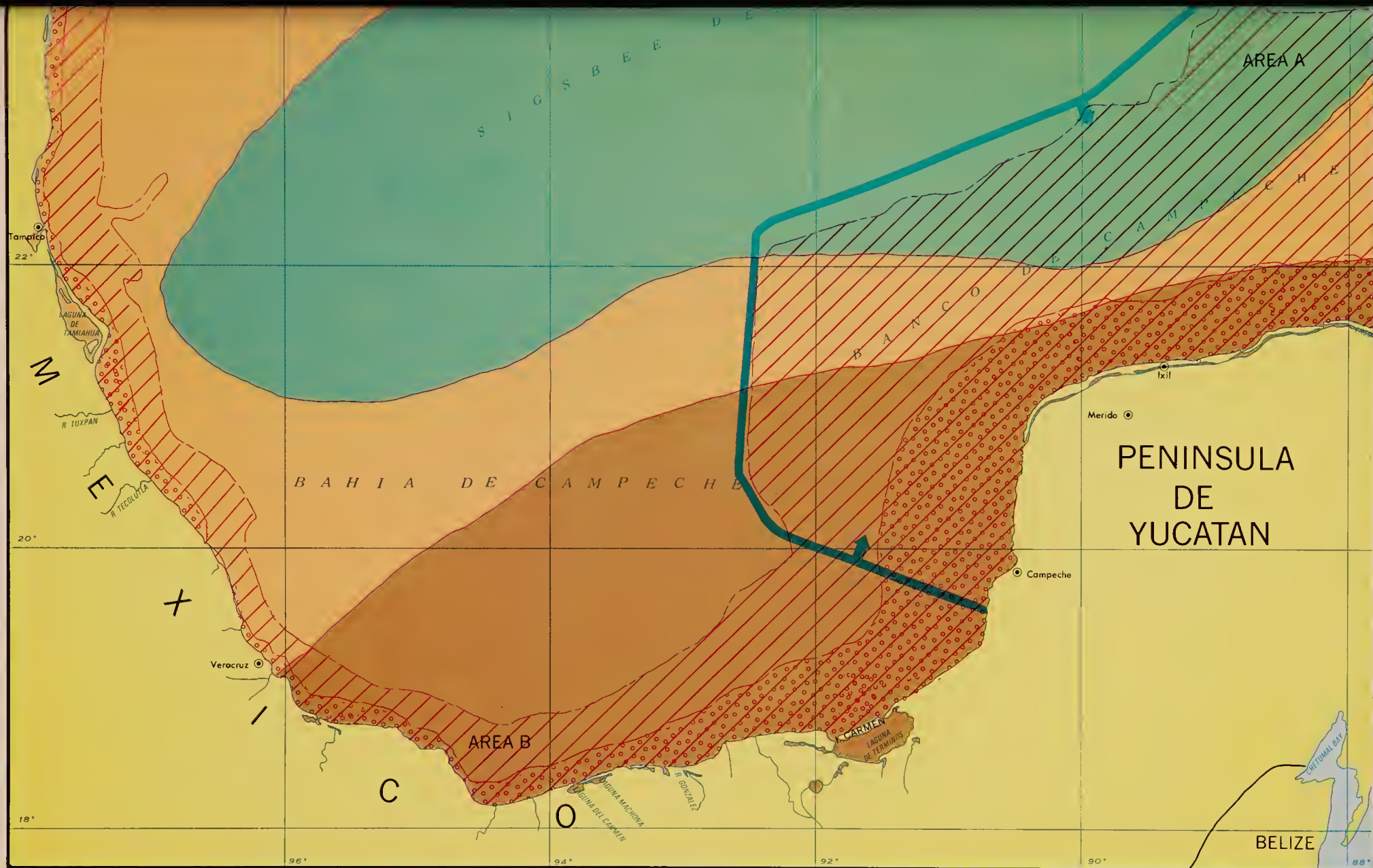
Recorded

151
1
1
20
58
270
6
1

Estimated

(e area)



















UNITED STATES DEPARTMENT OF INTERIOR
BUREAU OF LAND MANAGEMENT
OUTER CONTINENTAL SHELF
GULF OF MEXICO AND ATLANTIC OCEAN
GULF OF MEXICO PELAGIC AND INDUSTRIAL FISHERIES

VISUAL NO. 4

SCALE 1:2,160,000

- | | |
|---|---|
|  MENHADEN |  TUNA SIGHTINGS APRIL, MAY, JUNE |
|  JACKS AND CHUB MACKEREL |  SKIPJACK TUNA |
|  INDUSTRIAL FISH, WINTER GROUNDS |  BLACKFIN TUNA |
|  INDUSTRIAL FISH, SUMMER GROUNDS |  YELLOWFIN TUNA |
|  CLUPEIDS AND ANCHOVY |  200 METERS |
|  BLACK MULLET |  1000 FATHOMS |

HASKELL, 1961; BOGDANOV, 1969;
FAO, DEPARTMENT OF FISHERIES, 1971







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BUREAU OF LAND MANAGEMENT
OUTER CONTINENTAL SHELF
GULF OF MEXICO AND ATLANTIC OCEAN
GULF OF MEXICO PELAGIC AND INDUSTRIAL FISHERIES

VISUAL NO. 4

SCALE 1:2,160,000

-  MENHADEN
-  JACKS AND CHUB MACKEREL
-  INDUSTRIAL FISH, WINTER GROUNDS
-  INDUSTRIAL FISH, SUMMER GROUNDS
-  CLUPEOIDS AND ANCHOVY
-  BLACK MULLET

TUNA SIGHTINGS-APRIL, MAY, JUNE

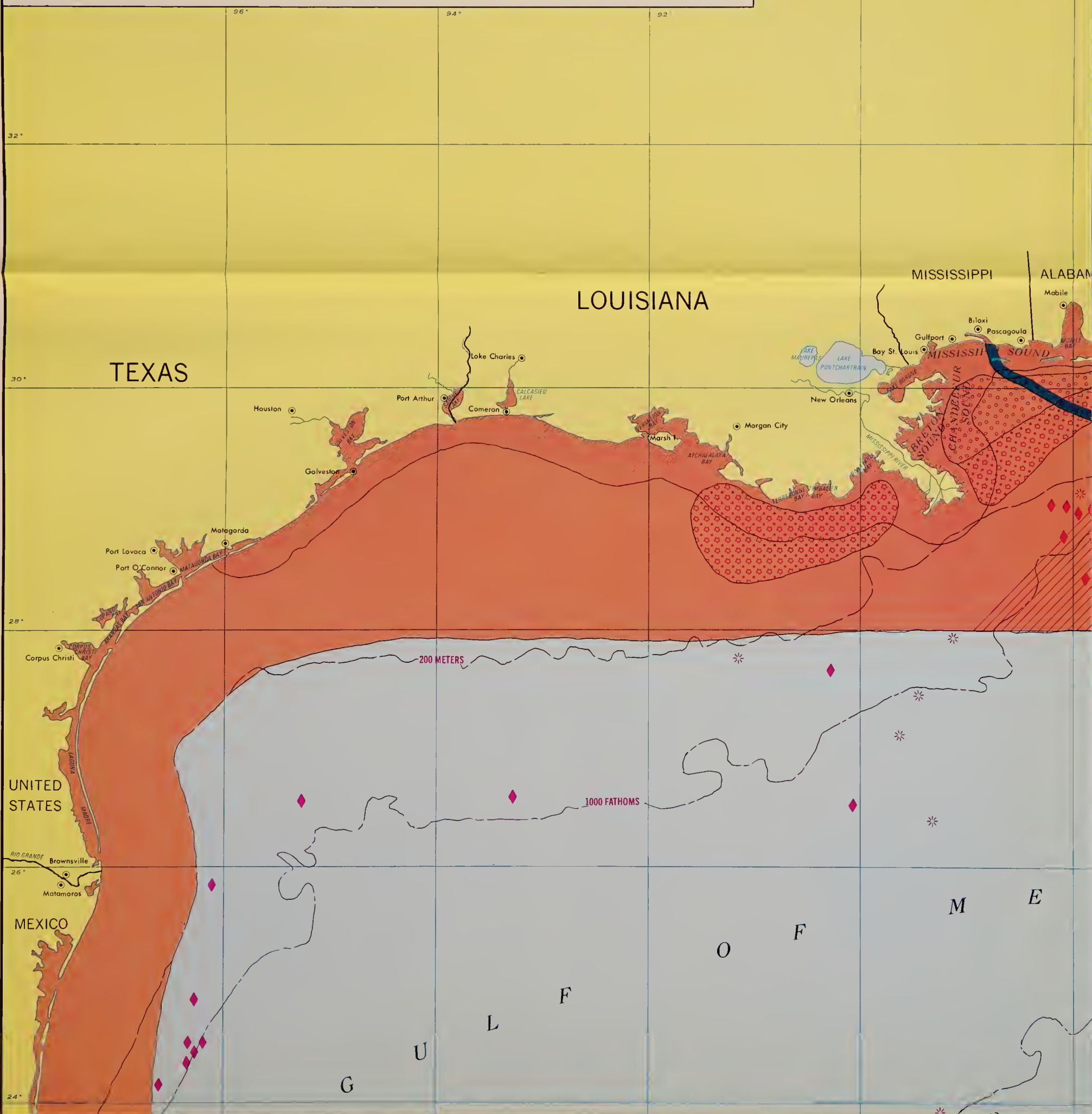
-  SKIPJACK TUNA
-  BLACKFIN TUNA
-  YELLOWFIN TUNA

 200 METERS

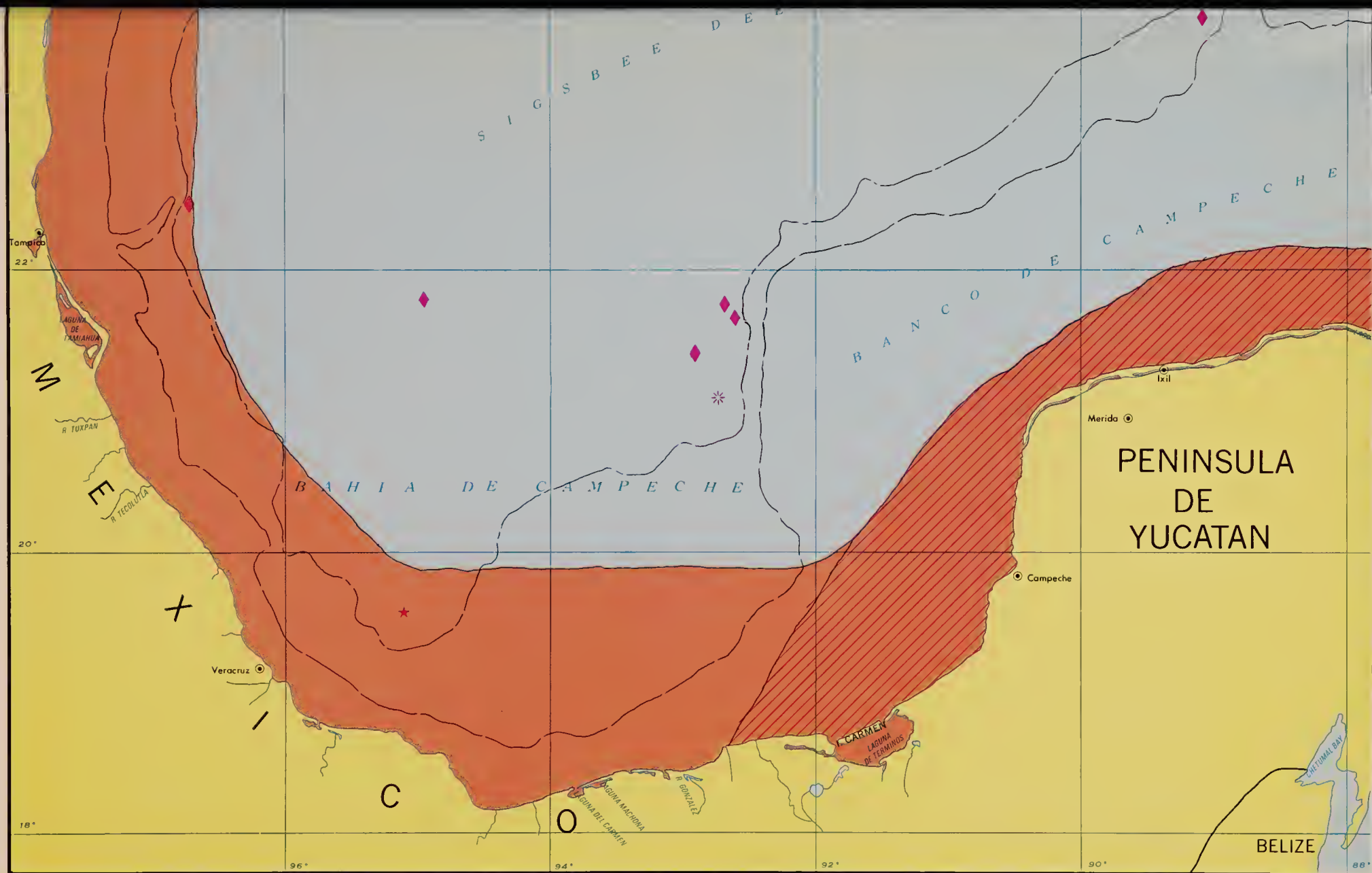
 1000 FATHOMS

HASKELL, 1961; BOGDANOV, 1969;
FAO, DEPARTMENT OF FISHERIES, 1971

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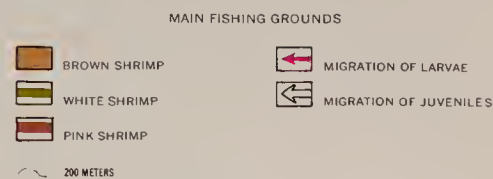




UNITED STATES DEPARTMENT OF INTERIOR
BUREAU OF LAND MANAGEMENT
OUTER CONTINENTAL SHELF
GULF OF MEXICO AND ATLANTIC OCEAN
GULF OF MEXICO PENAEID SHRIMPS

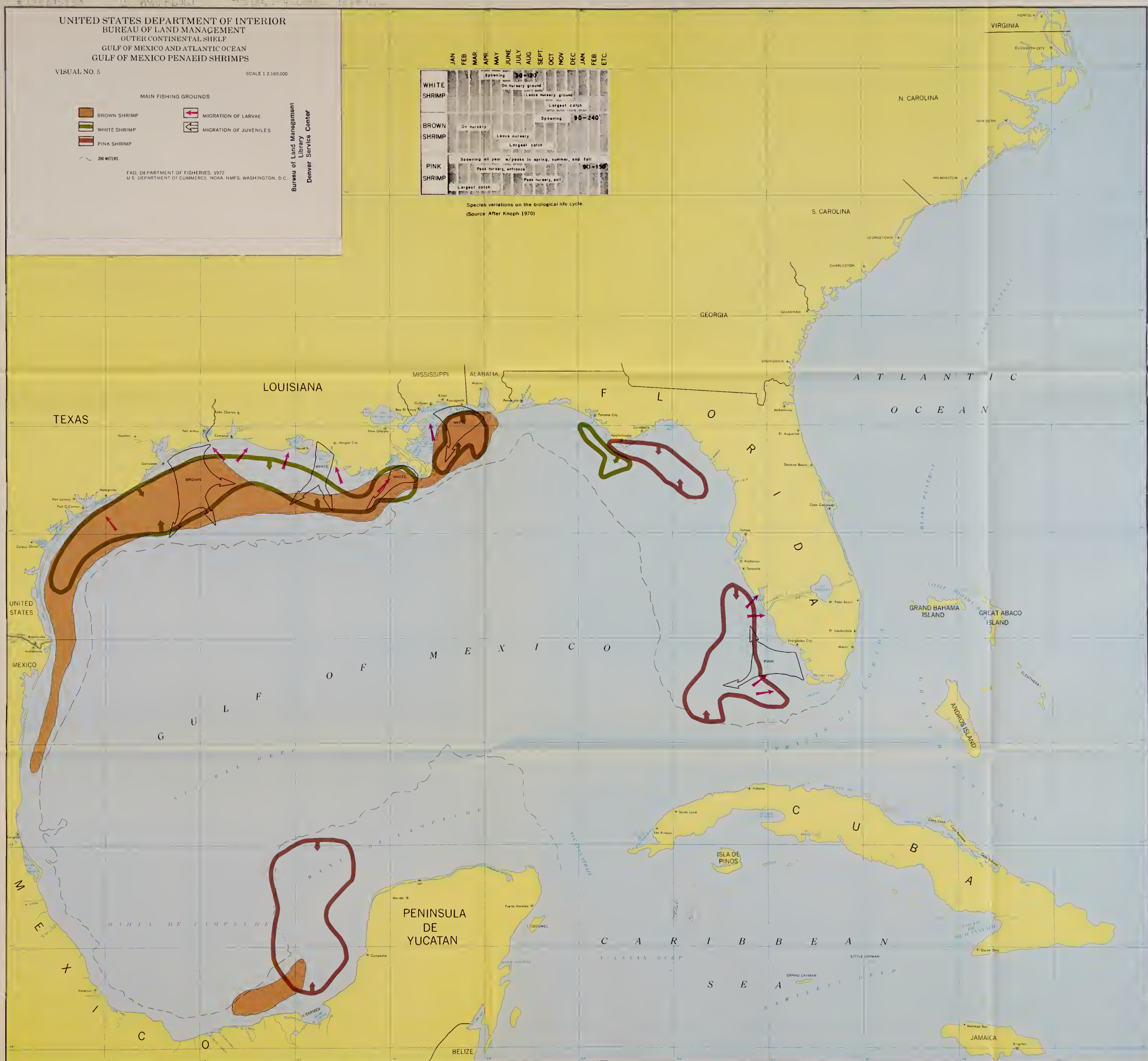
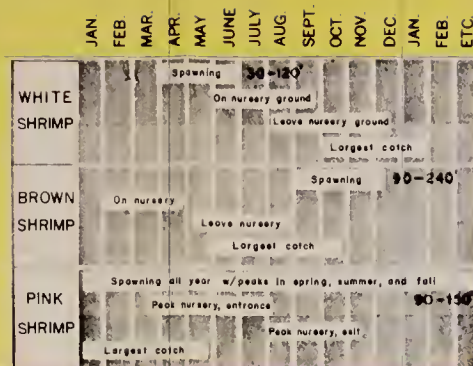
VISUAL NO. 5

SCALE 1:2,160,000



FAO, DEPARTMENT OF FISHERIES, 1972
U.S. DEPARTMENT OF COMMERCE, NOAA, NMFS, WASHINGTON, D.C.

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UNITED STATES DEPARTMENT OF INTERIOR
BUREAU OF LAND MANAGEMENT
OUTER CONTINENTAL SHELF
GULF OF MEXICO AND ATLANTIC OCEAN
GULF OF MEXICO PENAEID SHRIMPS

VISUAL NO. 5

SCALE 1:2,160,000

MAIN FISHING GROUNDS



BROWN SHRIMP



WHITE SHRIMP



PINK SHRIMP

200 METERS



MIGRATION OF LARVAE



MIGRATION OF JUVENILES

FAO, DEPARTMENT OF FISHERIES, 1972
U.S. DEPARTMENT OF COMMERCE, NOAA, NMFS, WASHINGTON, D.C.

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JAN. FEB. MAR. APR.

WHITE
SHRIMP

BROWN
SHRIMP

PINK
SHRIMP

On nursery

Spawning all
Peak n

Largest catch

Species v
(Source: A

LOUISIANA

TEXAS

MISSISSIPPI

ALABAMA

UNITED
STATES

MEXICO

G

L

U

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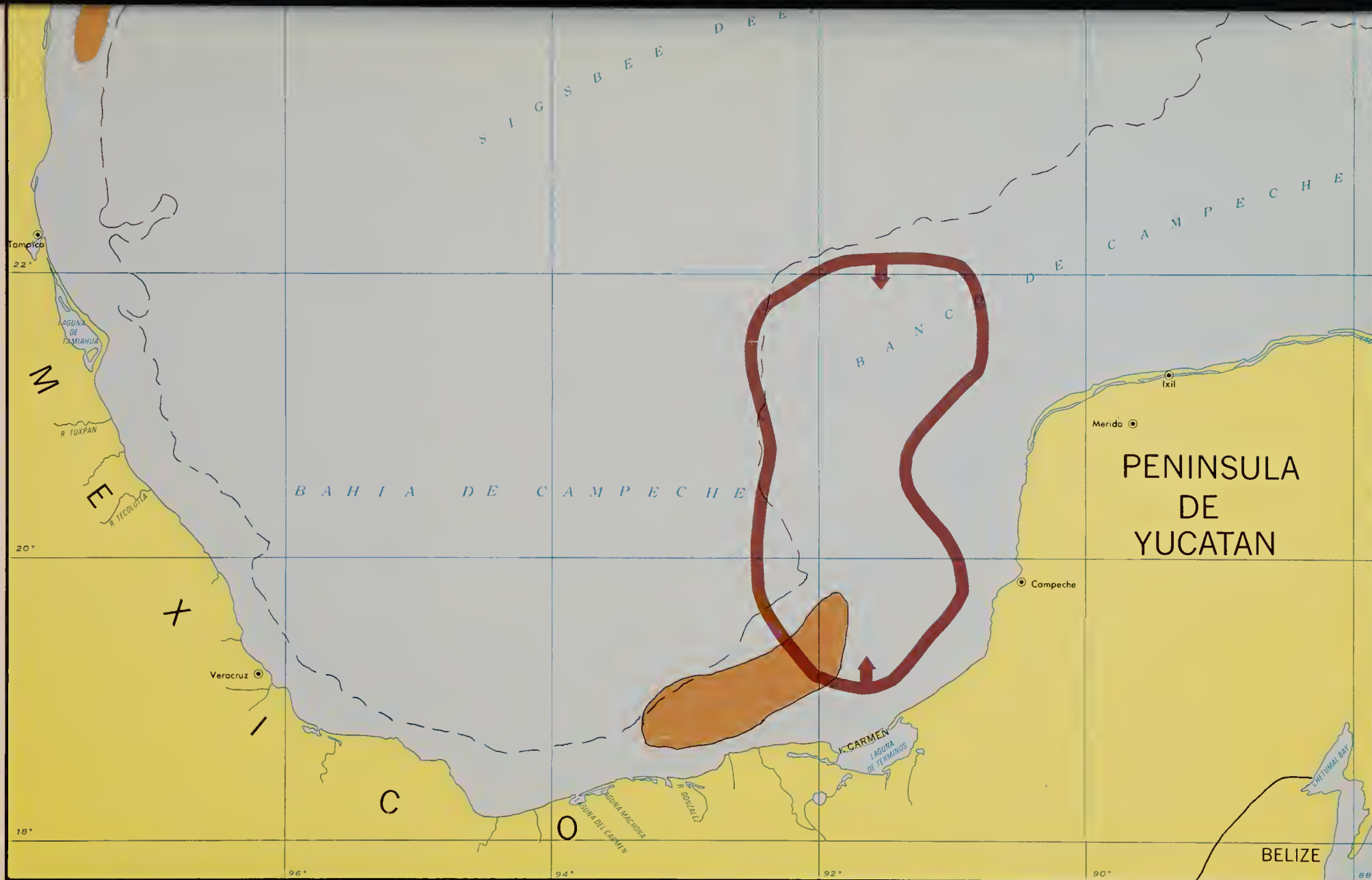
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UNITED STATES DEPARTMENT OF INTERIOR
BUREAU OF LAND MANAGEMENT
OUTER CONTINENTAL SHELF
GULF OF MEXICO AND ATLANTIC OCEAN
TRANSPORTATION AND COASTAL REFINING CENTERS
VISUAL NO. 6

SCALE 1:2,160,000



Corpus Christi - 344,686	Port Arthur - 1,188,000	Meraux - 92,500
Sweeny - 85,000	Port Neches - 47,000	Venice - 28,700
Baytown - 500,000	Beaumont - 335,000	Belle Chasse - 180,400
Houston - 288,410	Lake Charles - 268,000	Purvis - 28,500
Alvin - 8,500	Jennings - 4,000	Lumberton - 5,500
Texas City - 470,200	Egan - 15,000	Sandersville - 11,000
Pasadena - 100,000	Church Point - 3,500	Yazoo City - 4,500
Winnie - 9,400	St. James - 11,000	Pascagoula - 240,000
Deer Park - 294,000	Norco - 240,000	Theodore - 17,500
Silsbee - 29,600	Baton Rouge - 458,000	St. Marks - 5,000
Nederland - 116,000	Chalmette - 97,500	Savannah - 12,000
	Convent - 140,000	

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ONLY SEGMENTS OF HIGHWAYS AND RAILROADS
NEAR PRINCIPAL PORTS ARE SHOWN.



UNITED STATES DEPARTMENT OF INTERIOR
BUREAU OF LAND MANAGEMENT
OUTER CONTINENTAL SHELF
GULF OF MEXICO AND ATLANTIC OCEAN
TRANSPORTATION AND COASTAL REFINING CENTERS
VISUAL NO. 6

SCALE 1:2,160,000



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Deer Park - 294,000	Norco - 240,000	Theodore - 17,500
Silsbee - 29,600	Baton Rouge - 458,000	St. Marks - 5,000
Nederland - 116,000	Chalmette - 97,500	Savannah - 12,000
	Convent - 140,000	

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NEAR PRINCIPAL PORTS ARE SHOWN.
































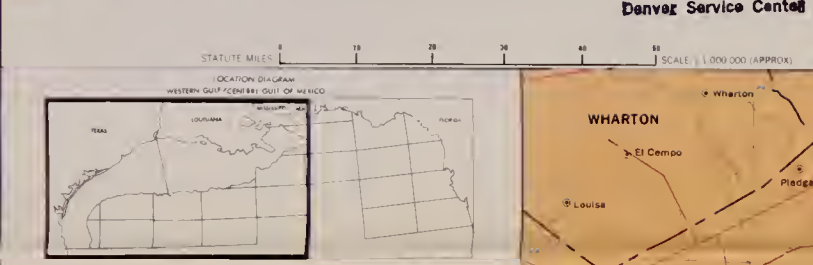


UNITED STATES DEPARTMENT OF INTERIOR
BUREAU OF LAND MANAGEMENT
VISUAL NO. 1 NEW ORLEANS OUTER CONTINENTAL SHELF OFFICE
WESTERN AND CENTRAL GULF OF MEXICO
LEASE STATUS, RECREATION, HISTORIC AND ARCHAEOLOGICAL RESOURCES

 COUNTY BOUNDARIES	 AIR FORCE RESERVE POTENTIAL RECREATION LAND	 STATE WILDLIFE MANAGEMENT AREAS
 ACTIVE LEASES	 ORNAMENTAL GARDENS	 PRIVATE WILDLIFE REFUGES
 EXPIRED LEASES	 NATIONAL AUDUBON SOCIETY SANCTUARIES	 MISCELLANEOUS RECREATION AREAS
 PROPOSED TRACTS FOR LEASING 47	 RECREATION BEACH	 WILDO AND SCENIC RIVERS
 FAIRWAYS AND ANCHORAGE AREAS	 RECREATION BEACH	 WILDO AND SCENIC RIVERS
 OIL AND/OR GAS PIPELINES	 LARGE STATE PARKS	 HISTORIC REGISTER HISTORIC SITES
 NATIONAL WILDLIFE REFUGES	 SMALL STATE PARKS AND MONUMENTS	 HISTORIC REGISTER HISTORIC SITES
 NATIONAL PARK SERVICE AREAS	 PROPOSED STATE PARKS OR MONUMENTS	 HISTORIC REGISTER HISTORIC SITES
 PROPOSED TRACTS FOR LEASING 48		

NUMBERS AND LETTERS IN RED ARE KEPT IN LEGEND BOX 1.

Bureau of Land Management Library

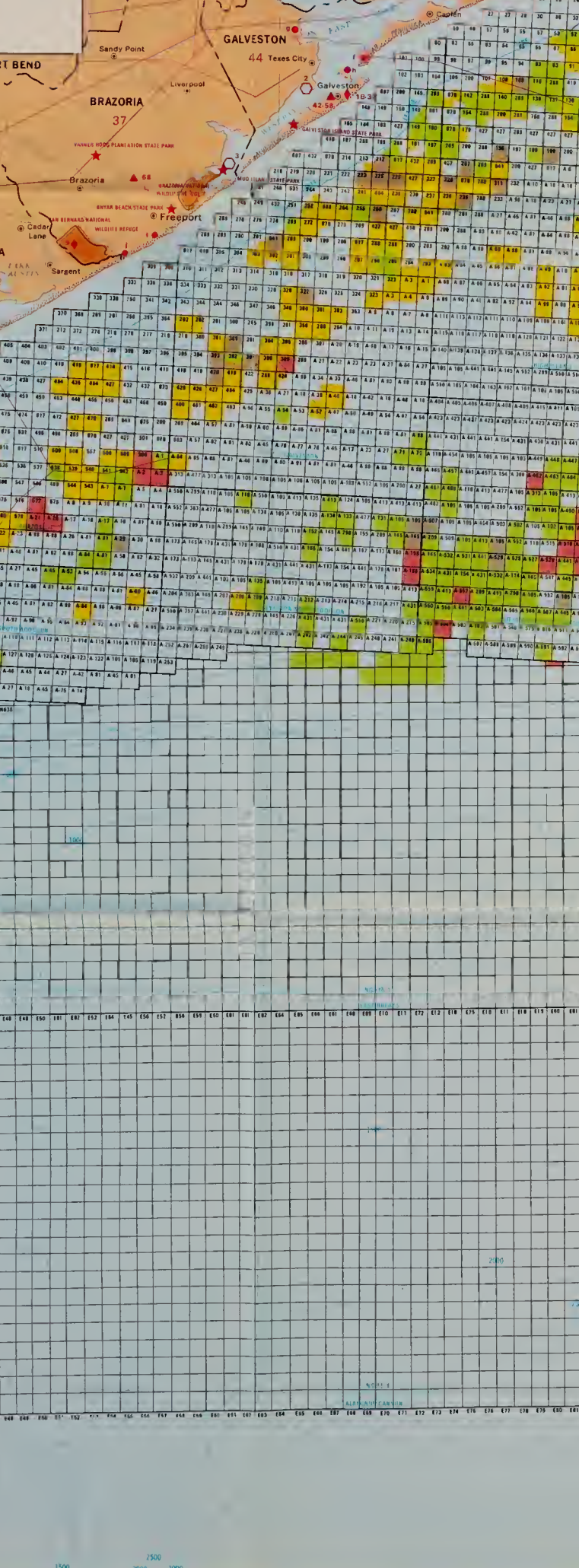


ATTENTION: USE the special
305 waterproof map (shown)
has been prepared from satellite
surveys to determine an
environmental impact statement
70% BEFORE THE LAND MANAGEMENT
15% IMPROVEMENT OF THE WATERSHED
does not guarantee the accuracy
in the context of responsibility

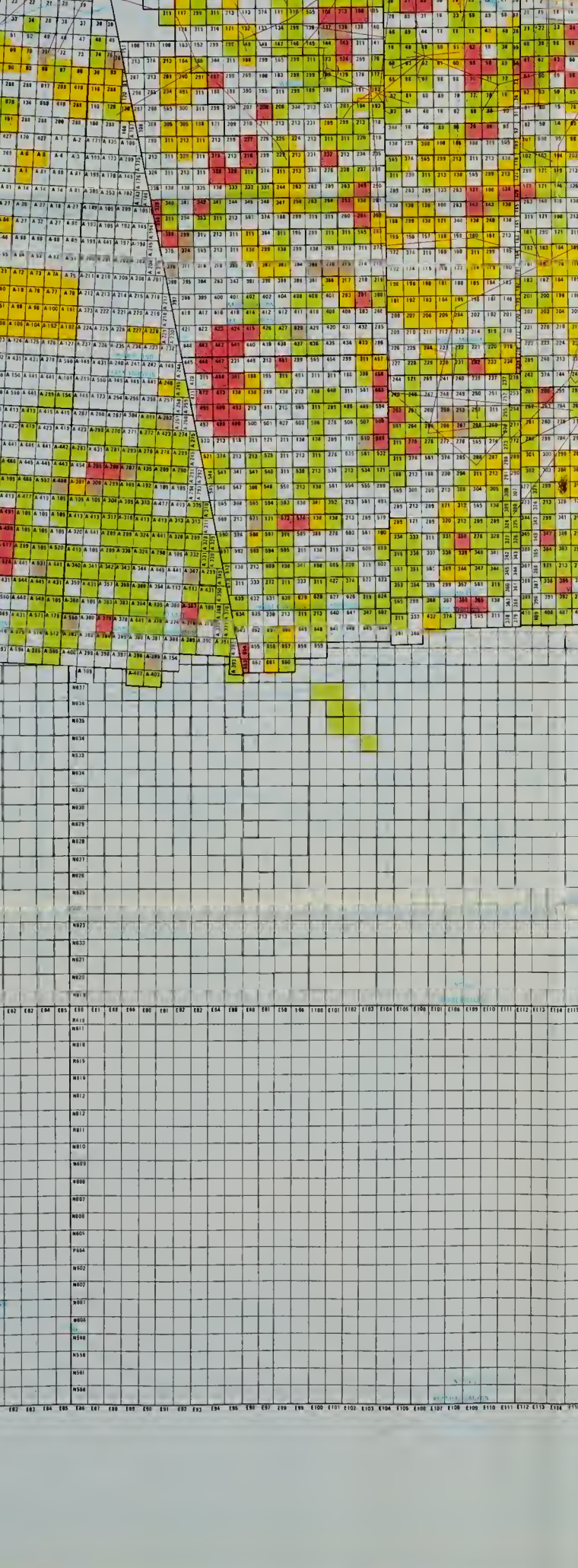
to identify the interests
between. The DOJ must act in
the best of the interests of the
land and the people of the
United States people.

Reported by: New Orleans
Water Conservation Fund Office
New Orleans, La. Published November 1975

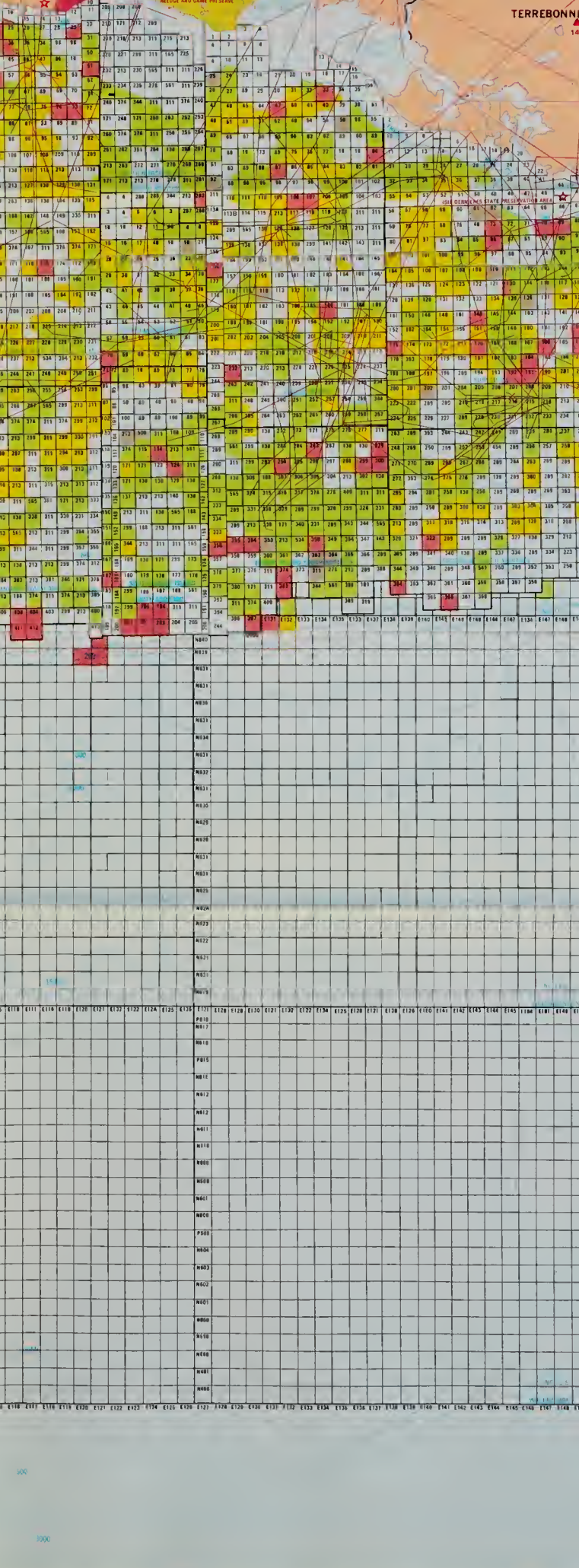
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JACKSON
Grading
College
Matagorda

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17. Clayton, Missouri
18. Sam Houston College in Houston
19. William V. Thomas, Jr.
20. George Washington Carver
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100. George Washington Carver

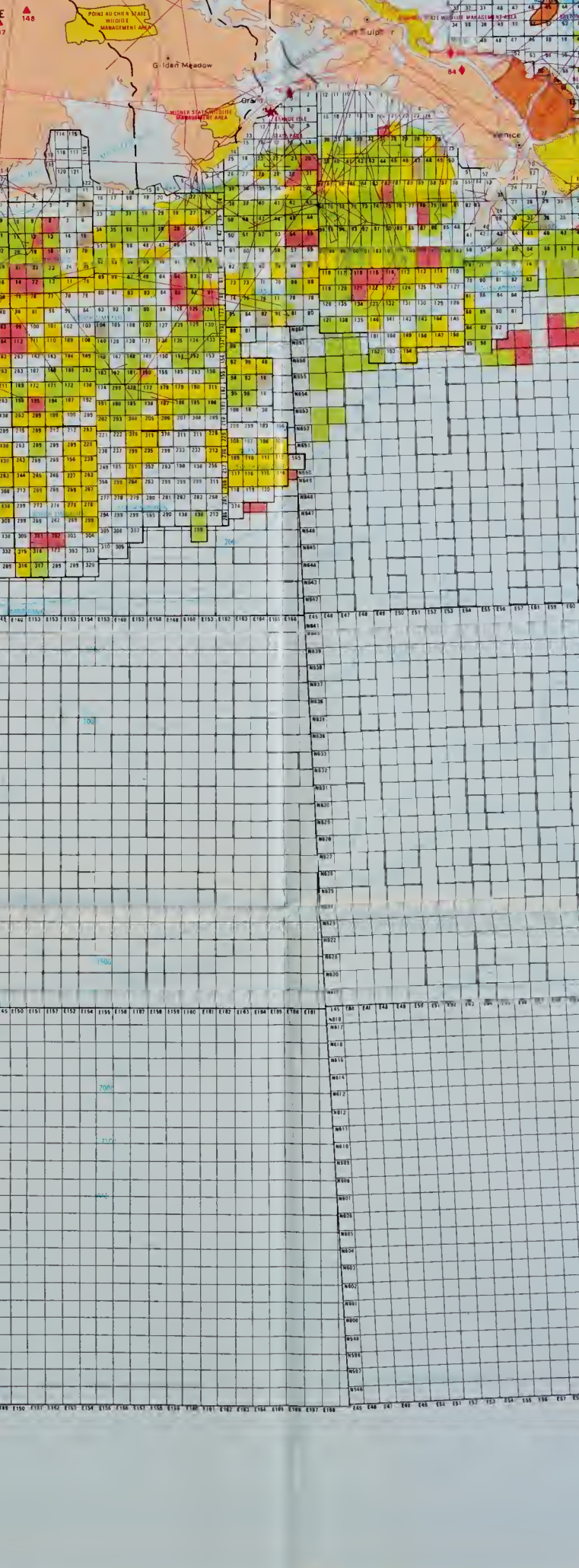
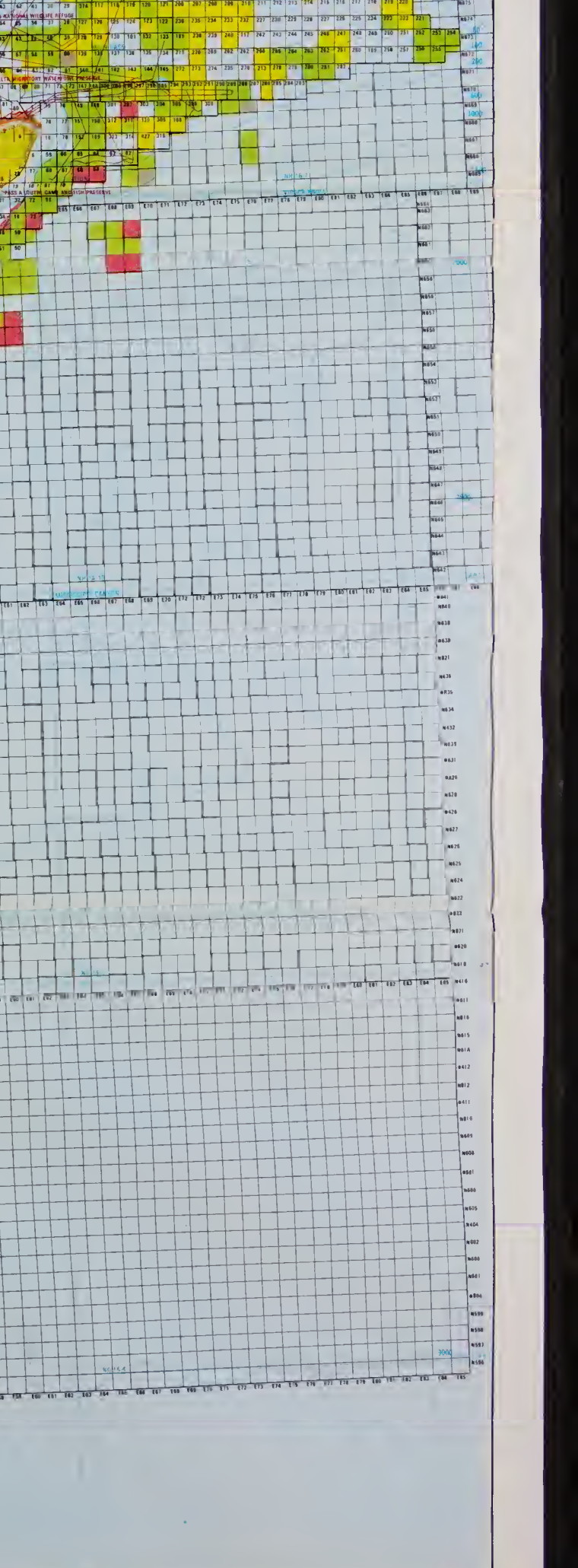


A detailed map of Louisiana, showing major cities, highways, and geographical features. The map includes the Gulf of Mexico to the south, the Mississippi River to the west, and the Texas border to the southwest. Major cities labeled include New Orleans, Baton Rouge, Shreveport, Lafayette, and Lake Charles. The map also shows the state capital, Baton Rouge, and the largest city, New Orleans. The map is color-coded by region, with different shades of green and yellow representing different parts of the state. The map includes a scale bar and a compass rose.



This map illustrates the Louisiana Purchase territory, bounded by the Mississippi River to the east and the Rocky Mountains to the west. Key features include:

- Geographical Features:** The Mississippi River flows from the north to the Gulf of Mexico. Major cities like St. Louis, New Orleans, and St. Charles are marked. The Gulf of Mexico is shown to the south.
- Political Boundaries:** The Louisiana Purchase territory is outlined in green. Surrounding territories like Spanish Florida, Spanish West Indies, and Spanish Louisiana are also labeled.
- Indian Tribes:** Numerous tribes are identified, including the Sauvages, Illinois, Chickasaw, Choctaw, Creek, Seminole, and others. Their traditional lands are often marked with red.
- Settlements and Forts:** Various settlements and forts are indicated, such as Fort St. Louis, Fort de la Poudre, and Fort de la Rivière.
- Scale and Orientation:** A scale bar at the bottom indicates distances in miles. A compass rose shows the cardinal directions.

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UNITED STATES DEPARTMENT OF INTERIOR
BUREAU OF LAND MANAGEMENT
NEW ORLEANS OUTER CONTINENTAL SHELF OFFICE
WESTERN AND CENTRAL GULF OF MEXICO
LEASE STATUS, RECREATION, HISTORIC AND ARCHAEOLOGICAL RESOURCES

VISUAL NO. 1

COUNTY BOUNDARIES

ACTIVE LEASES

EXPIRED LEASES

PROPOSED TRACTS FOR LEASING 47

FAIRWAYS AND ANCHORAGE AREAS

OIL AND/OR GAS PIPELINES

NATIONAL WILDLIFE REFUGES

NATIONAL PARK SERVICE AREAS

PROPOSED TRACTS FOR LEASING 45

AIR FORCE RESERVE
POTENTIAL RECREATION LAND

ORNAMENTAL GARDENS

NATIONAL AUOUBON SOCIETY
SANCTUARIES

RECREATION BEACH

LARGE STATE PARKS

SMALL STATE PARKS AND MONUMENTS

PROPOSED STATE PARKS OR MONUMENTS

NUMBERS AND LETTERS IN RED ARE KEYS IN LEGEND BOX B

WATER DEPTH (METERS)

STATE WILDLIFE MANAGEMENT AREAS

PRIVATE WILDLIFE REFUGE

MISCELLANEOUS RECREATIONAL FACILITIES

WILD AND SCENIC RIVERS

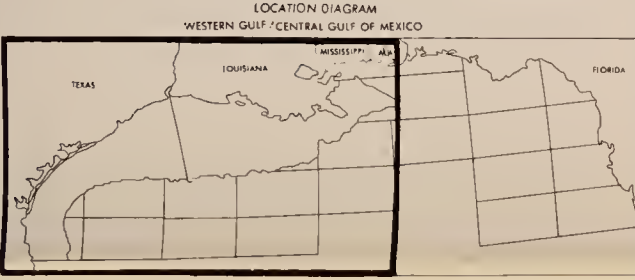
NATIONAL REGISTER HISTORICAL SITES

HISTORIC SITES

NUMBER OF REPORTED ARCHAEOLOGICAL
SITES PER COUNTY

Bureau of Land Management
Library
Denver Service Center

STATUTE MILES 0 10 20 30 40 50
SCALE 1:1,000,000 (APPROX)



ATTENTION USER: This special
OC environmental map (visual)
has been prepared from existing
sources to accompany an
Environmental Impact Statement.
THE BUREAU OF LAND MANAGEMENT,
U.S. DEPARTMENT OF THE INTERIOR,
does not guarantee the accuracy
to the extent of responsibility
or liability for reliance
thereon. This OC visual is not
to be used for navigation purposes,
nor is it a legal document for
Federal leasing purposes.
Prepared by the New Orleans
Outer Continental Shelf Office,
New Orleans, LA. Published November 1976

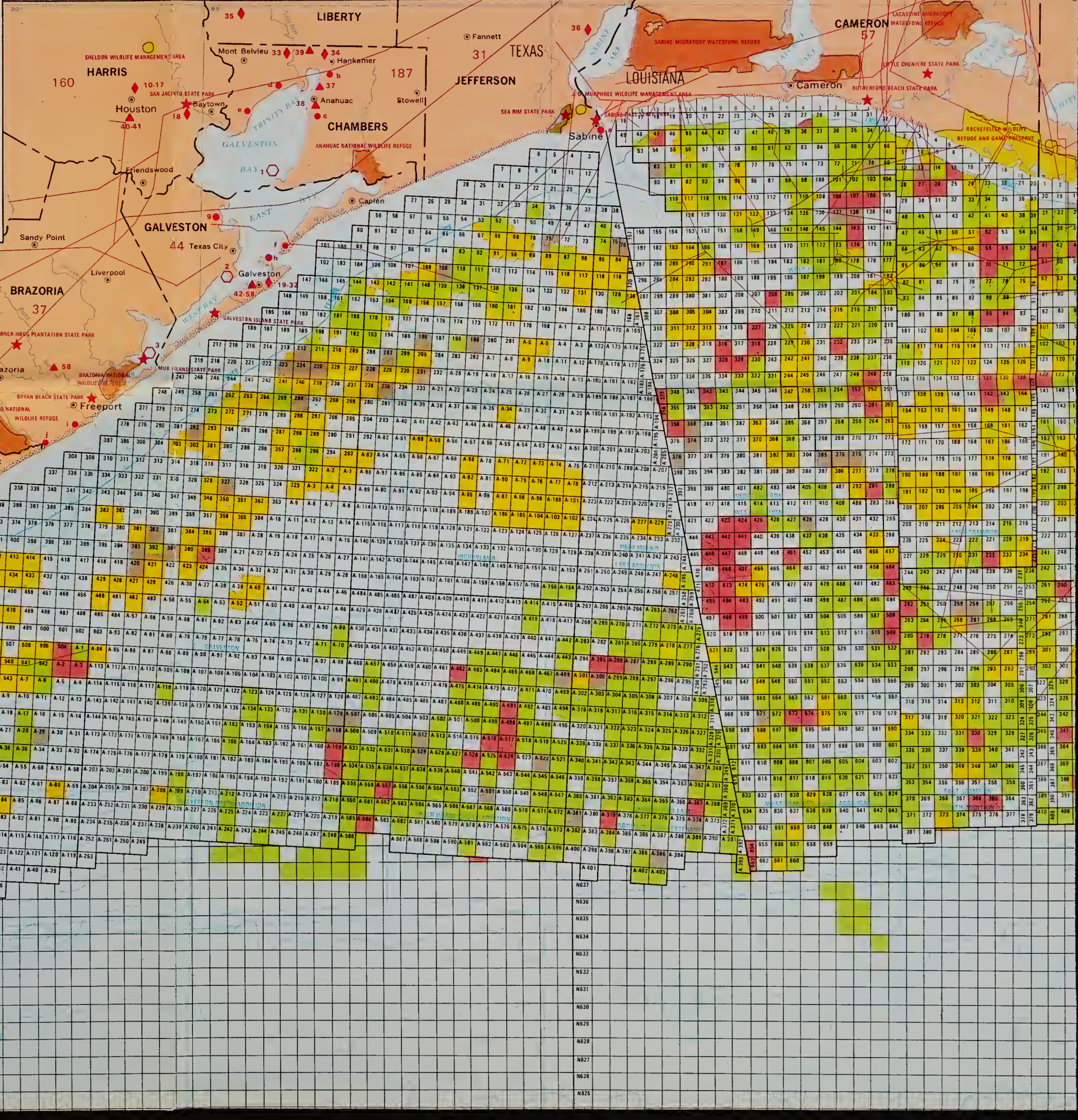
- TEXAS
- 1 Old Braly Plantation
 - 2 Palo Alto Battlefield
 - 3 Brazos San Jacinto Depot
 - 4 Garcia Pasture Site
 - 5 Mansfield Cut Underwater Archaeological District
 - 6 Dunn Ranch, Novillo Lm. Cami
 - 7 Thomas H. Mathis House
 - 8 Fort St. Louis
 - 9 John McCroskey
 - 10 Annunciation Church
 - 11 Kellum Noble House
 - 12 Old Houston National Bank
 - 13 Pilot Building
 - 14 Sewall Building
 - 15 Swensen, Luums and
 - 16 U.S. Custom House
 - 17 1884 Houston Cotton Exchange
 - 18 San Jacinto Battlefield
 - 19 A. H. Smith Building
 - 20 Ashton Villa
 - 21 Bishop's Palace
 - 22 East End Historic District
 - 23 Grace Episcopal Church
 - 24 Grand Opera House
 - 25 Mosquito Fleet Bath
 - 26 Old Galveston Custom House
 - 27 Potham House
 - 28 Fort Polk
 - 29 St. Mary's Cathedral
 - 30 Strand Historic District
 - 31 "Theater of the Sea" Building
 - 32 Samuel May Williams House
 - 33 Site 41 CH-110
 - 34 Orcoquisac Archaeological District
- 35 Site 41 LB4
- 36 Pompano Villa
- ADDITIONAL SITES CHOSEN BY TEXAS STATE BOARD OF REVIEW FOR SUBMISSION TO THE NATIONAL REGISTER
- 37 Chambers House- 38 Fort Anahuac
- 39 Historic Indian Village
- 40 Cherry House
- 41 Harris "Pony" Boys School Site
- 42 Walter O. Ansell House
- 43 Ball House
- 44 Ball House at 1127 Strand
- 45 Boulevard District
- 46 Galveston County Museum (Old Wm. R. R. Building)
- 47 Hendley Building
- 48 Menard House
- 49 Gen. E. B. Nicholson Building
- 50 J. F. Smith House
- 51 Tribe House
- 52 Wilkerson-Tinker House
- 53 House at 3301 Avenue I
- 54 House at 2114 Avenue M
- 55 House at 3518 Avenue M
- 56 House at 1725 Avenue M
- 57 House at 1222 21st Street
- 58 House at 1502 Market
- 59 Over 600 Significant Structures in the City of Galveston are Recorded in the Files of the Texas State Historical Survey Commission
- 60 Indiana District
- 61 Fulton House
- 62 Stillman House
- 63 Louisiana National Register Sites
- 64 Alexander Moulton House
- 65 Site 41 CH-110
- 66 Sacred Heart Academy
- 67 Enterprise Plantation

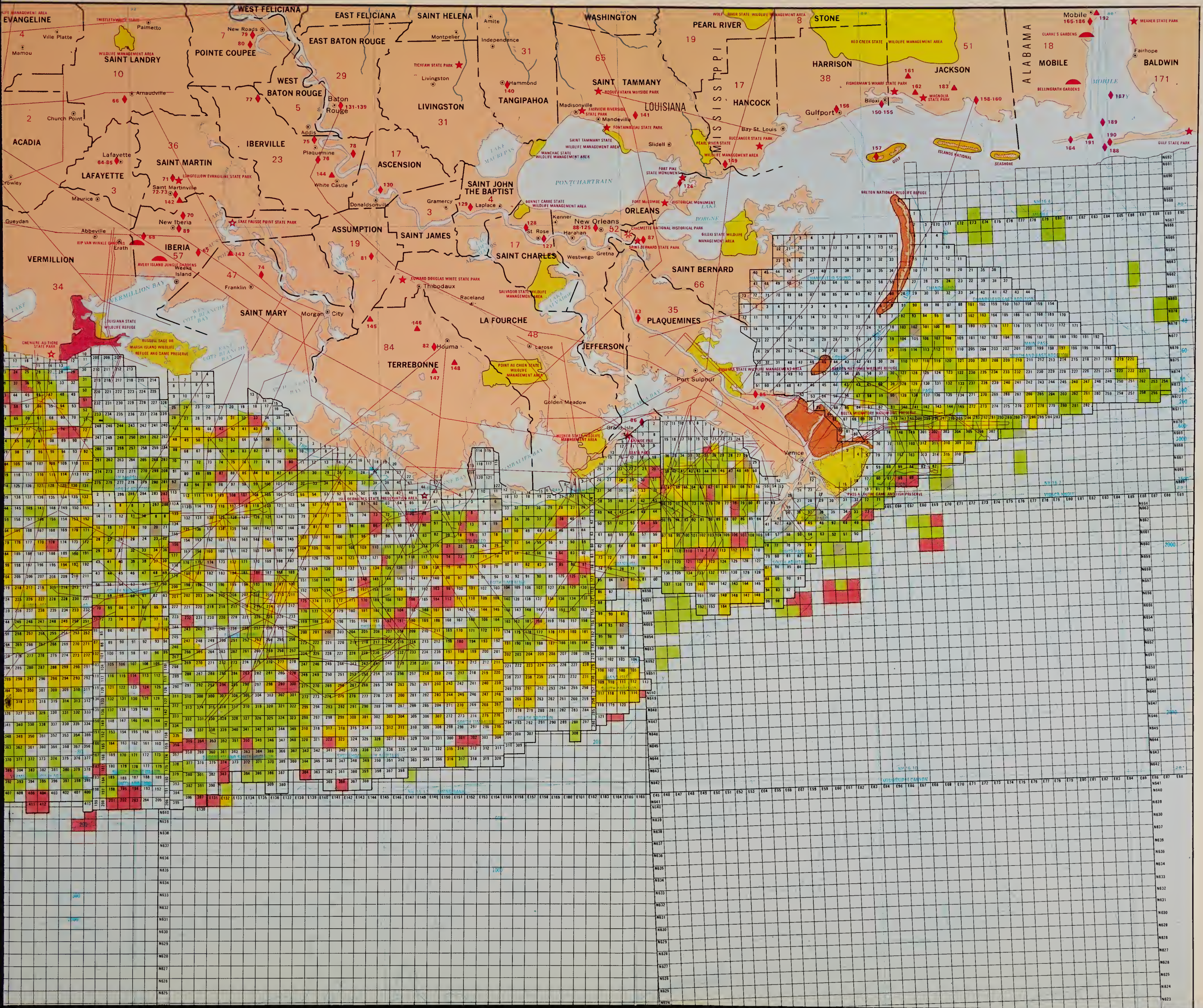
SITES LISTED ON THE NATIONAL REGISTER OF HISTORIC PLACES

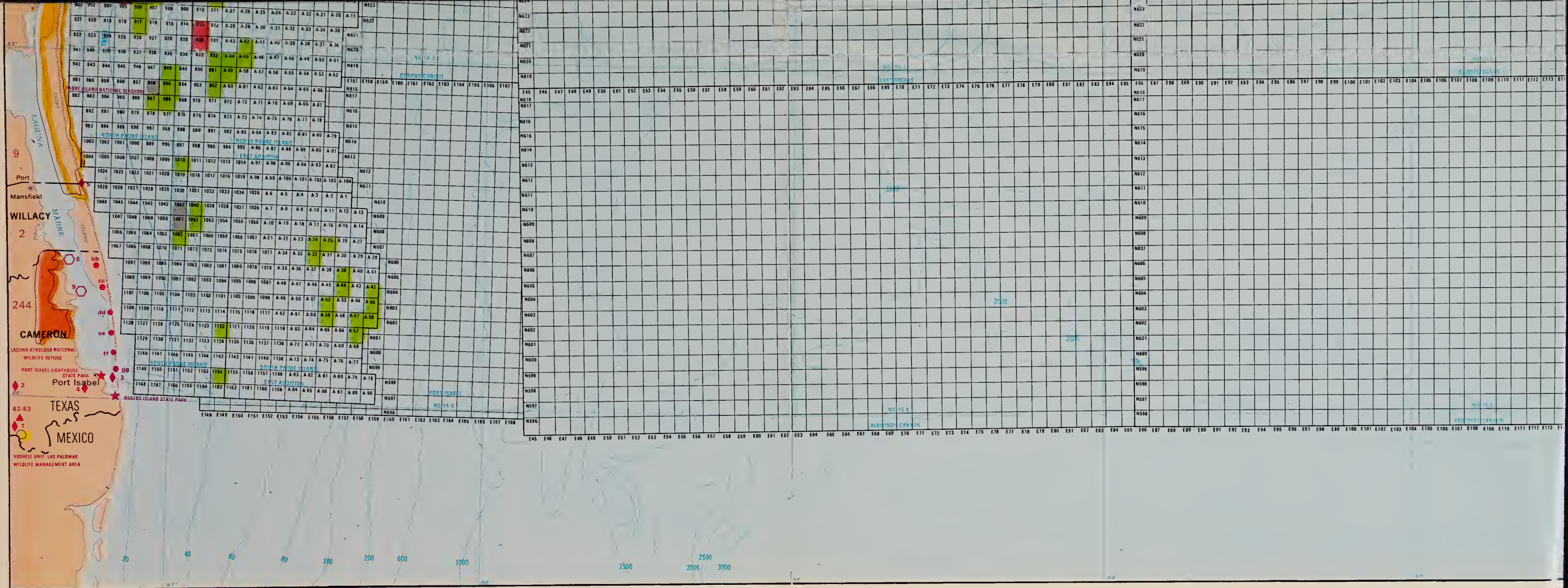
 - 103 Lafayette Cemetery No. 1
 - 104 White's Blacksmith Shop
 - 105 Leconteville Barrage
 - 106 Keyes House
 - 107 Lower Garden District
 - 108 Mortimer John-Lacy
 - 109 Old Market
 - 110 Old Ursuline Convent
 - 111 Preservation Hall
 - 112 Pitt House (Huravel House)
 - 113 The Presbytery
 - 114 Jean Louis Ballou House
 - 115 St. Alphonsus Church
 - 116 St. Charles Streetcar Line
 - 117 St. Louis Cemetery No. 2
 - 118 St. Louis Cemetery No. 1
 - 119 St. Mary's Assumption Church
 - 120 St. Patrick's Church
 - 121 Turpin Miller House
 - 122 U.S. Court of Appeals-Fifth Circuit
 - 123 U.S. Custom House
 - 124 U.S. Mint New Orleans Branch
 - 125 Vieux Carré Historic District
 - 126 Fort Pike
 - 127 Desha's Plantation
 - 128 Homestead Plantation House
 - 129 San Francisco Plantation House
 - 130 Hermitage
 - 131 Baton Rouge Waterworks Company Stand Pipe
 - 132 Magnolia Mound Plantation House
 - 133 Old Louisiana Governor's Mansion
 - 134 Old Louisiana State Capitol
 - 135 Pentagon Barracks
 - 136 Potts House

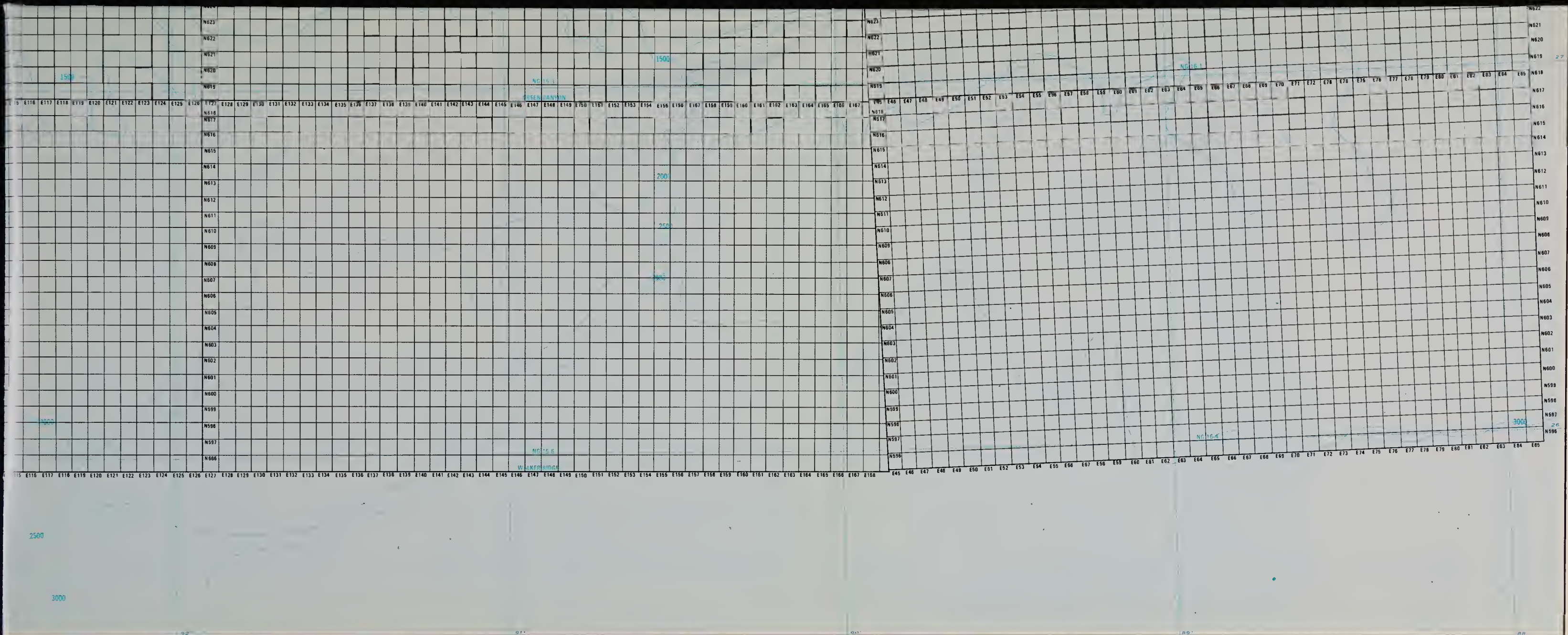
- LOUISIANA
- 137 Powder Magazine
 - 138 Stewart Dougherty House
 - 139 Warden's House
 - 140 Louisiana State Penitentiary
 - 141 Grace Memorial Episcopal Church
 - 142 Abita Springs Pavilion
 - 143 Evangeline Oak
 - 144 Alabama Historic Site
 - 145 The Presbytery
 - 146 Indian Mounds
 - 147 Indian Mounds
 - 148 Indian Mounds
 - 149 Jackson Landing Site
 - 150 Biloxi
 - 151 Biloxi Garrison Center
 - 152 Biloxi Lighthouse
 - 153 Giles House
 - 154 Magnolia House
 - 155 Margaret Emile
 - 156 Miner House
 - 157 Fort Massachusetts
 - 158 Louisiana National Register Sites
 - 159 Railroad Depot
 - 160 U.S. Canal
- OTHER HISTORIC SITES IN LOUISIANA
- 161 "The Old House"
 - 162 Old Indian Springs
 - 163 French Colonial Plantation
 - 164 Indian Mound Park
- MISSISSIPPI
- 165 Barren Academy
 - 166 Battle House Royale
 - 167 Bridge Mitchell House
 - 168 Brick Larchmont Store
 - 169 Carolina Hall
 - 170 Gibson Perdue House
 - 171 Church Street East
 - 172 Old Inn Square
 - 173 Historic District
 - 174 Old Conde Charlotte
 - 175 Gates Daves House
 - 176 Georgia Cottage
 - 177 Kirkbride House
 - 178 Mobile City Hall
 - 179 Mobile City Hospital
 - 180 Oak Leigh
 - 181 Oak Leigh Garden
 - 182 Bishop Perdue House
 - 183 Protestant Children's Home
 - 184 Robert Semmes House
 - 185 Spring Hill College Quadrangle
 - 186 U.S. Marine Hospital
 - 187 Middle Bay Light
 - 188 Sand Island Light
 - 189 U.S.S. Tecumseh
 - 190 Fort Morgan
 - 191 Fort Gaines
 - 192 U.S. Alabama Memorial Park

- MISSISSIPPI
- 193 Powder Magazine
 - 194 Stewart Dougherty House
 - 195 Warden's House
 - 196 Louisiana State Penitentiary
 - 197 Grace Memorial Episcopal Church
 - 198 Abita Springs Pavilion
 - 199 Evangeline Oak
 - 200 Alabama Historic Site
 - 201 The Presbytery
 - 202 Indian Mounds
 - 203 Indian Mounds
 - 204 Indian Mounds
 - 205 Jackson Landing Site
 - 206 Biloxi
 - 207 Biloxi Garrison Center
 - 208 Biloxi Lighthouse
 - 209 Giles House
 - 210 Magnolia House
 - 211 Margaret Emile
 - 212 Miner House
 - 213 Fort Massachusetts
 - 214 Louisiana National Register Sites
 - 215 Railroad Depot
 - 216 U.S. Canal
- OTHER HISTORIC SITES IN MISSISSIPPI
- 217 "The Old House"
 - 218 Old Indian Springs
 - 219 French Colonial Plantation
 - 220 Indian Mound Park
- ALABAMA
- 221 Barren Academy
 - 222 Battle House Royale
 - 223 Bridge Mitchell House
 - 224 Brick Larchmont Store
 - 225 Carolina Hall
 - 226 Gibson Perdue House
 - 227 Church Street East
 - 228 Old Inn Square
 - 229 Historic District
 - 230 Old Conde Charlotte
 - 231 Gates Daves House
 - 232 Georgia Cottage
 - 233 Kirkbride House
 - 234 Mobile City Hall
 - 235 Mobile City Hospital
 - 236 Oak Leigh
 - 237 Oak Leigh Garden
 - 238 Bishop Perdue House
 - 239 Protestant Children's Home
 - 240 Robert Semmes House
 - 241 Spring Hill College Quadrangle
 - 242 U.S. Marine Hospital
 - 243 Middle Bay Light
 - 244 Sand Island Light
 - 245 U.S.S. Tecumseh
 - 246 Fort Morgan
 - 247 Fort Gaines
 - 248 U.S. Alabama Memorial Park









#100305123

VISUAL NO. 2

UNITED STATES DEPARTMENT OF INTERIOR
BUREAU OF LAND MANAGEMENT
NEW ORLEANS OUTER CONTINENTAL SHELF OFFICE
WESTERN AND CENTRAL GULF OF MEXICO
GEOLOGIC AND GEOMORPHIC FEATURES

Prepared in Conjunction With
Proposed OCS Lease Sale No. 47

COUNTY BOUNDARIES

60 WATER DEPTH (METERS)

QUATERNARY	HOLOCENE	SLOPE	SHELF	COASTAL	UPLANDS
		Qsw SIGSBEE WEDGE	Qmc MISSISSIPPI CONE	Qsi MARSHES, SWAMPS AND BARRIER ISLANDS Qbi BAYS, LAKES AND COASTAL DEPOSITS Qc CHENIERS	Qr MODERN RIVERINE Qir LAFOURCHE RIDGE Qtr TECHIE RIDGE
TERTIARY	PLEISTOCENE	Qam MARINE	Qsd PEORIAN		Qpu PRAIRIE TERRACE Qtc HIGH TERRACE (CITRONELLE)
					Qm MIocene TERRACE
PRODUCTION TRENDS	PLEISTOCENE				
	PLIO-PLEISTOCENE				
	PLIOCENE				
	MIocene				
	OLIGOCENE				
CRETACEOUS					

REPORTED HARO BANKS

SALT DOME AREAS

SHALE OAPR AREAS

STATUTE MILES 0 10 20 30 40 50 SCALE 1:1,000,000 (APPROX)

SOURCES:

AMERICAN ASSOCIATION OF PETROLEUM
GEOLOGISTS. 1972. TECTONIC MAP OF
GULF COAST REGION

AMERICAN ASSOCIATION OF PETROLEUM
GEOLOGISTS. 1970. BATHYMETRIC
MAP, NORTHERN GULF OF MEXICO.

BICKER, ALVIN R., JR. GEOLOGIC
MAP OF MISSISSIPPI

BUSCH, R.E. JR., W.C. WARD, H.C.
SKINNER AND E.B. KEMP III. 1974.
PHYSIOGRAPHIC MAP OF THE
ATCHAFALAYA BASIN AND A PORTION
OF THE LOWER RED RIVER VALLEY,
LOUISIANA.

LAFAYETTE GEOLOGICAL SOCIETY. 1973.
PRODUCTION TRENDS MAP.

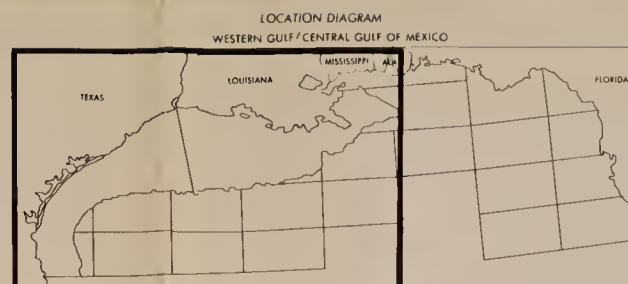
LAFAYETTE GEOLOGICAL SOCIETY. 1973.
TECTONIC MAP OF LOUISIANA.

LEBLANC, REFUS J. 1948. GEOLOGIC
MAP OF LOUISIANA, MODIFIED BY
E.B. KEMP III.

REEO, P.C. 1971. GEOLOGIC MAP
OF BALOWIN COUNTY, ALABAMA

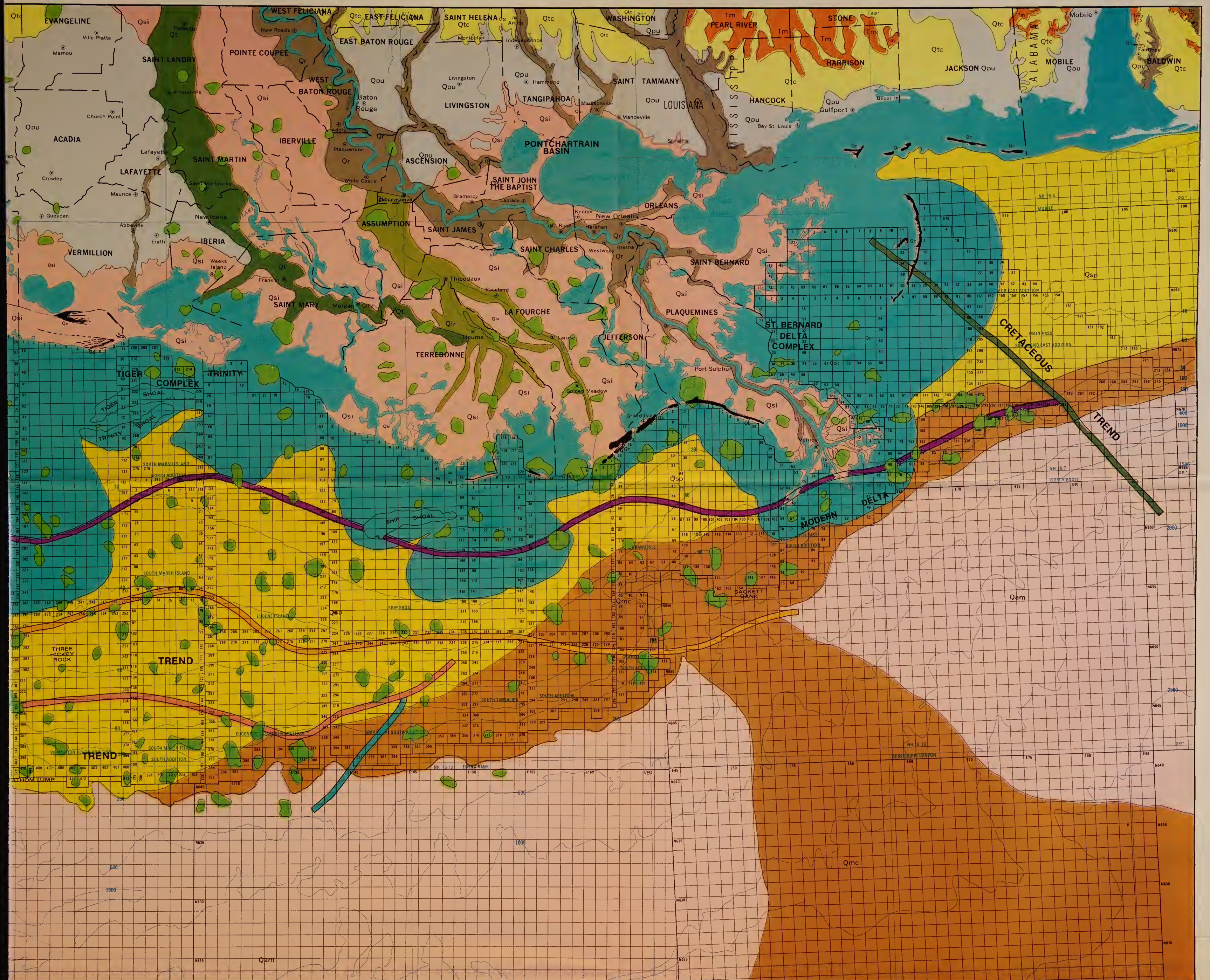
RENFRO, H.B. 1973. AAPG U.S.
GEOLOGICAL HIGHWAY MAP FOR
TEXAS, NO. 7. AAPG, P.O. BOX
979. TULSA, OKLAHOMA 74101.

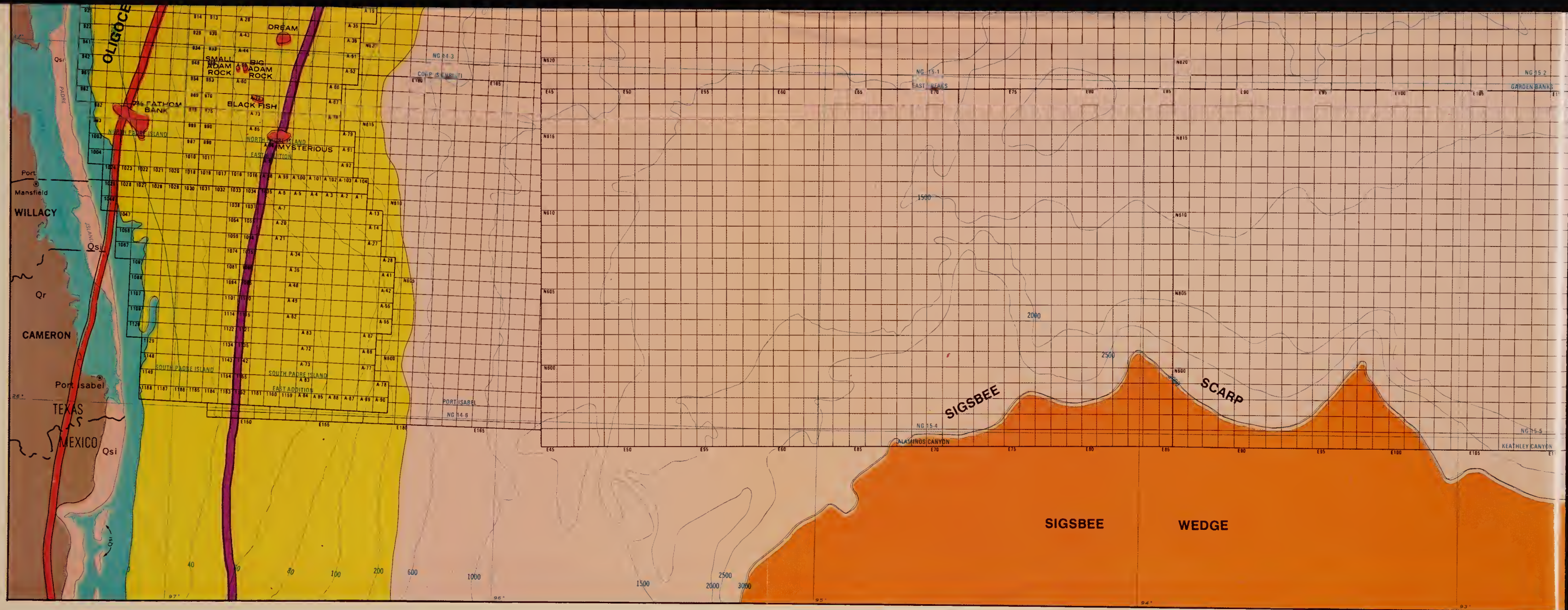
WALLACE, W.E. 1966. FAULT AND
SALT MAP OF SOUTH LOUISIANA.

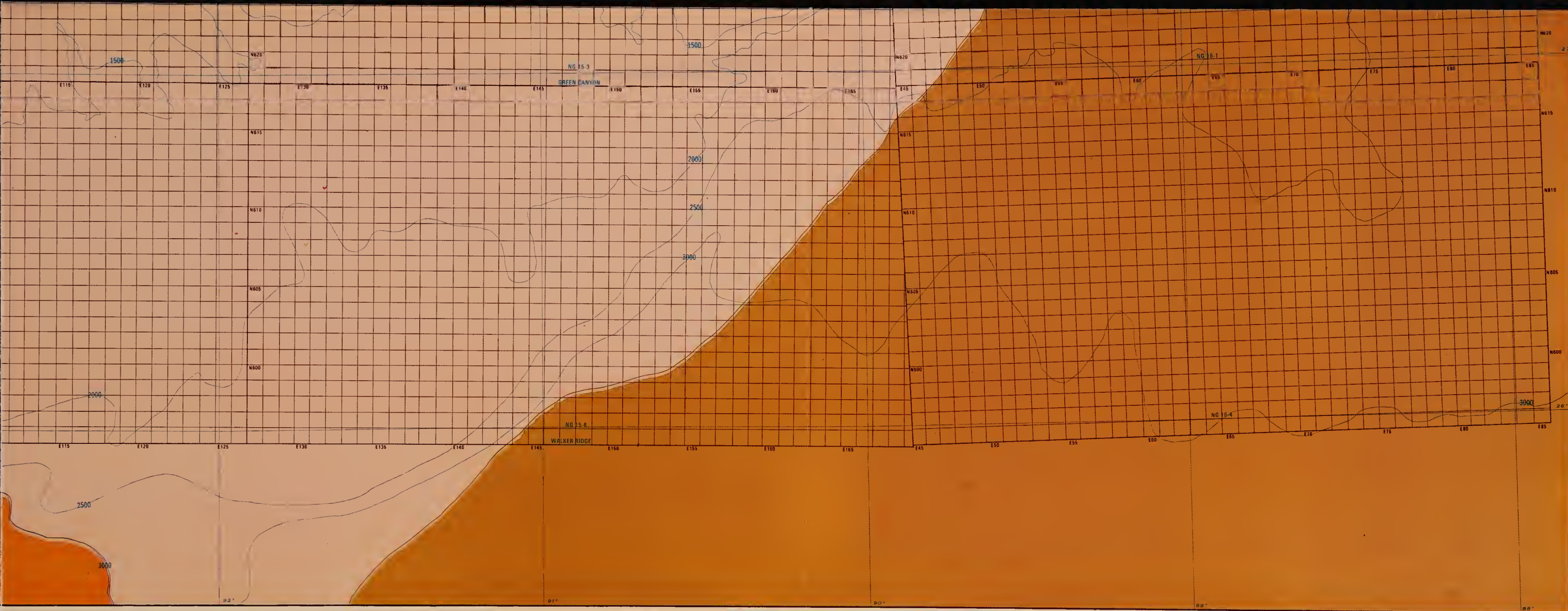


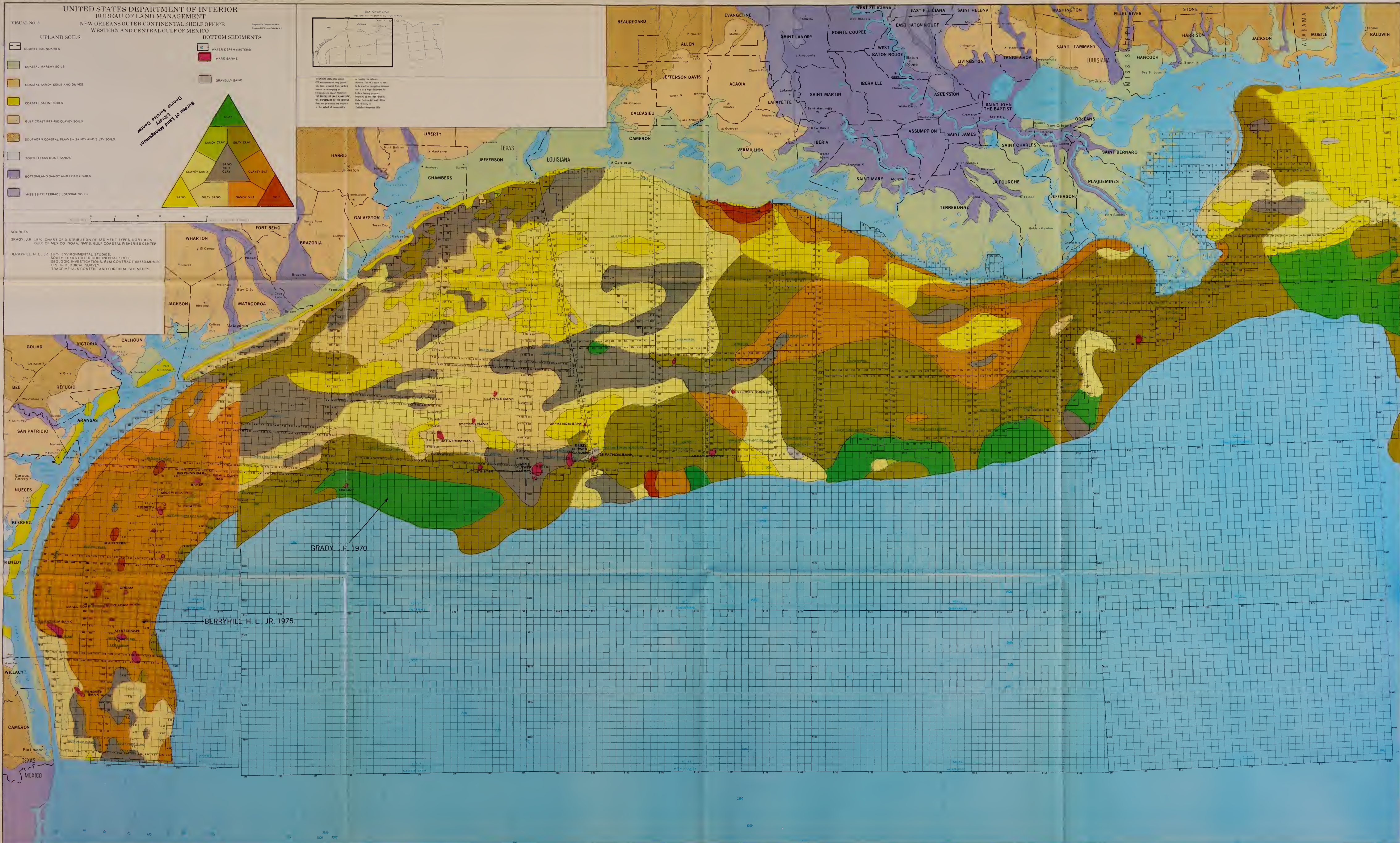
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has been prepared from existing
sources to accompany an
Environmental Impact Statement.
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U.S. DEPARTMENT OF THE INTERIOR
does not guarantee the accuracy
to the extent of responsibility
or liability for reliance
thereon. This OCS visual is not
to be used for navigation purposes,
nor is it a legal document for
Federal leasing purposes.
Prepared by the New Orleans
Outer Continental Shelf Office
New Orleans, La
Published November 1976











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UNITED STATES DEPARTMENT OF INTERIOR BUREAU OF LAND MANAGEMENT

VISUAL NO. 3

NEW ORLEANS OUTER CONTINENTAL SHELF OFFICE
WESTERN AND CENTRAL GULF OF MEXICO

Prepared in Conjunction With
Proposed OCS Lease Sale No. 47

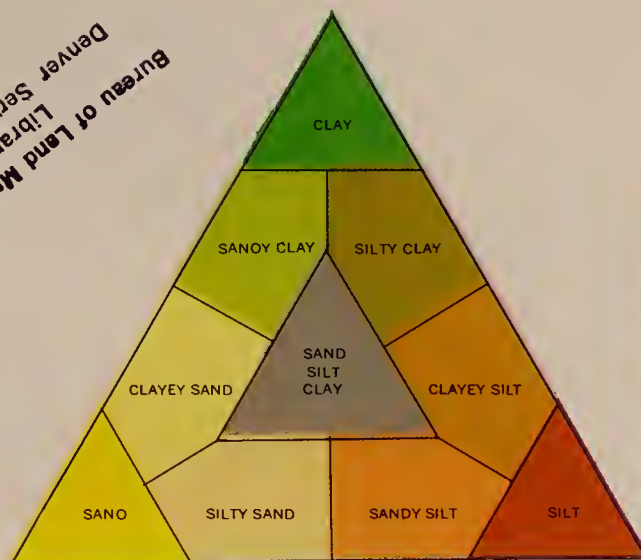
UPLAND SOILS

BOTTOM SEDIMENTS

- COUNTY BOUNDARIES
- COASTAL MARSHY SOILS
- COASTAL SANDY SOILS AND DUNES
- COASTAL SALINE SOILS
- GULF COAST PRAIRIE CLAYEY SOILS
- SOUTHERN COASTAL PLAINS - SANDY AND SILTY SOILS
- SOUTH TEXAS DUNE SANDS
- BOTTOMLAND SANDY AND LOAMY SOILS
- MISSISSIPPI TERRACE LOESSIAL SOILS

- WATER DEPTH (METERS)
- HARD BANKS
- GRAVELLY SAND

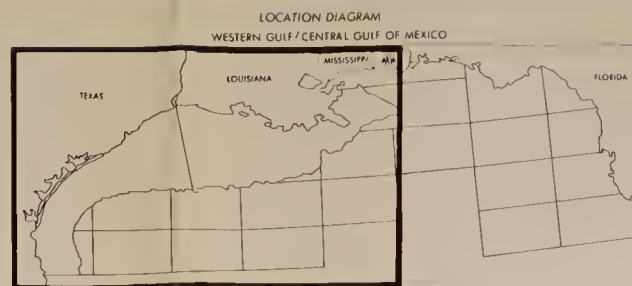
Bureau of Land Management
Library Service Center
Denver, Colorado



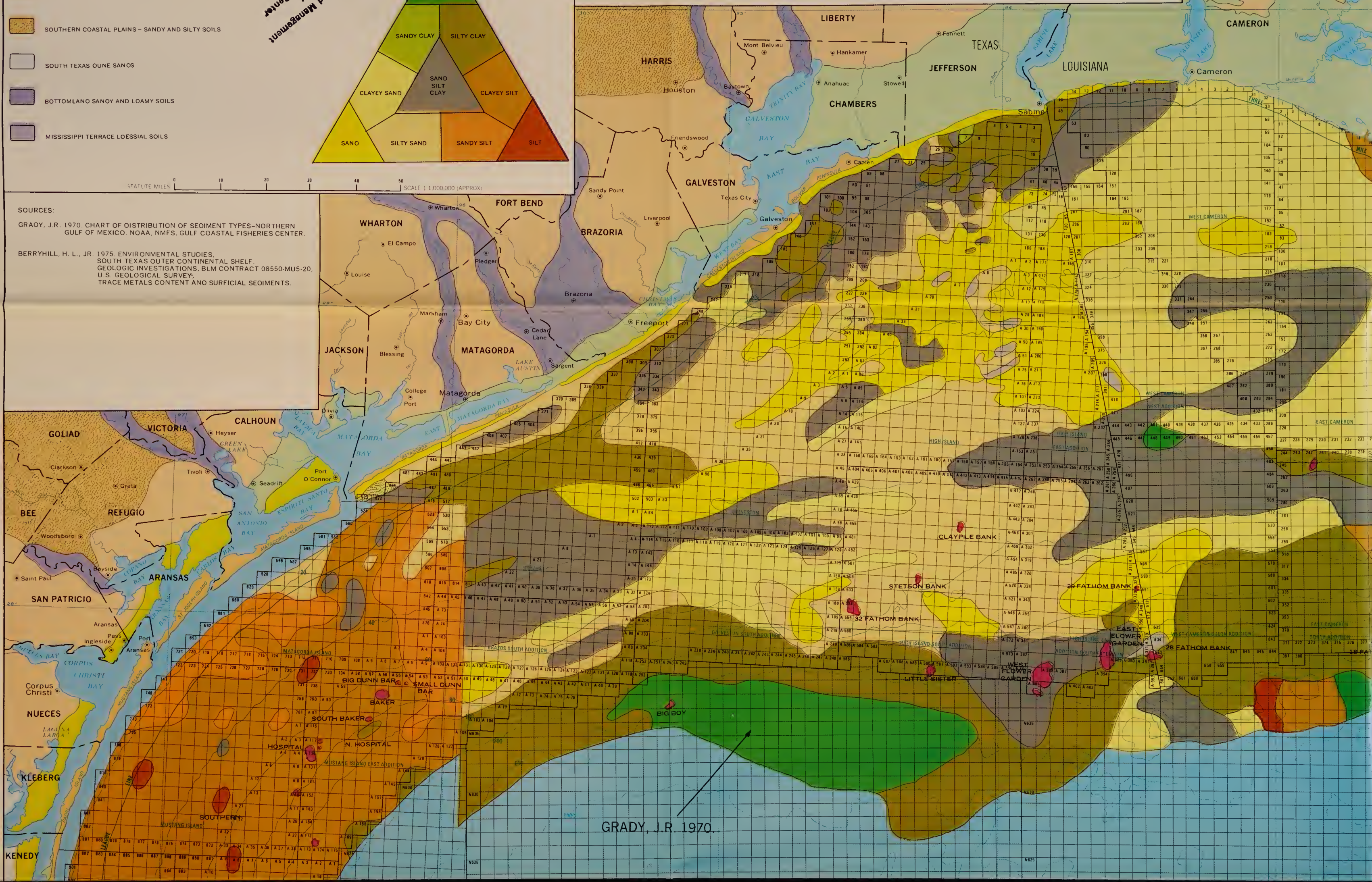
STATUTE MILES 0 10 20 30 40 50 SCALE 1:1,000,000 (APPROX)

SOURCES:
GRADY, J.R. 1970. CHART OF DISTRIBUTION OF SEDIMENT TYPES-NORTHERN GULF OF MEXICO. NOAA, NMFS, GULF COASTAL FISHERIES CENTER.

BERRYHILL, H. L., JR. 1975. ENVIRONMENTAL STUDIES, SOUTH TEXAS OUTER CONTINENTAL SHELF. GEOLOGIC INVESTIGATIONS, BLM CONTRACT 08550-MU5-20. U.S. GEOLOGICAL SURVEY. TRACE METALS CONTENT AND SURFICIAL SEDIMENTS.

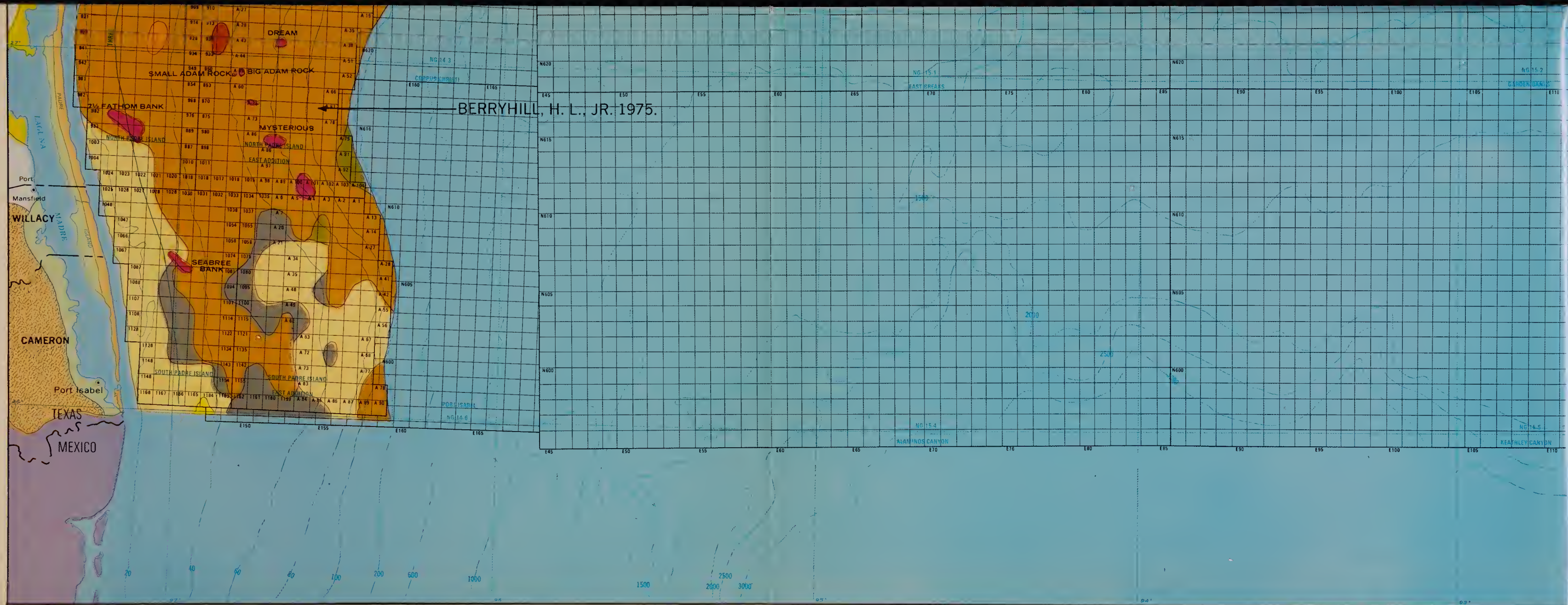


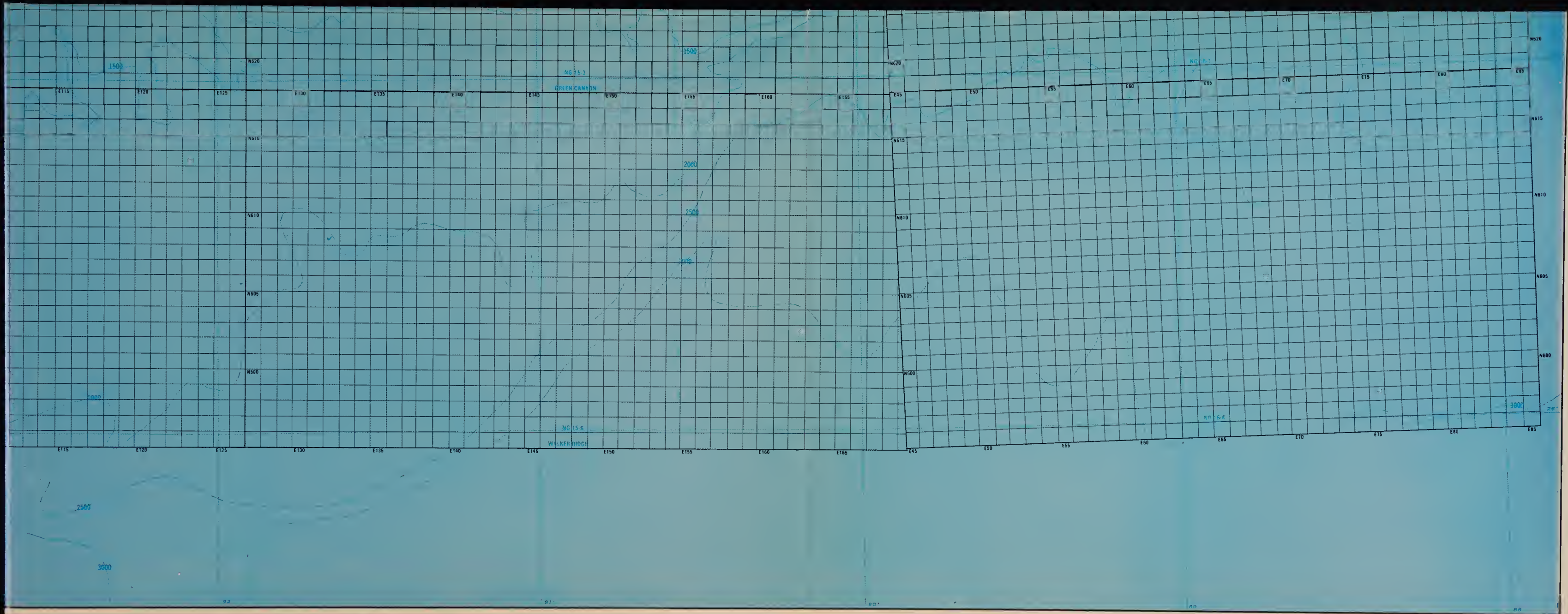
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GRADY, J.R. 1970.





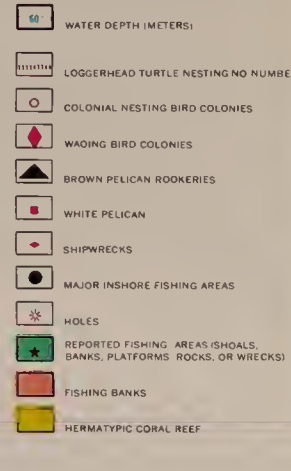


VISUAL NO. 4

Proposed OCS Lease Sale 80-43

NATURAL VEGETATION

UNDERSEA FEATURES



SOURCES
ALABAMA DEPARTMENT OF CONSERVATION AND NATURAL RESOURCES MONTGOMERY
ALABAMA WILDLIFE AND FISHERIES COMMISSION NEW ORLEANS
MISSISSIPPI GAME AND FISH COMMISSION JACKSON
TEXAS PARKS AND WILDLIFE DEPARTMENT AUSTIN
U.S. DEPARTMENT OF THE INTERIOR FISH AND WILDLIFE SERVICE WASHINGTON D.C.
U.S. DEPARTMENT OF COMMERCE NOAA NMFS WASHINGTON D.C.
U.S. DEPARTMENT OF COMMERCE NOAA NMFS SE. DIST. OFF. NEW ORLEANS
NOAA NATIONAL OCEANIC SERVICE CAGS #1164 1972
GALVESTON TO BIG BEND U.S. DEPARTMENT OF COMMERCE
NOAA NATIONAL OCEANIC SERVICE CAGS #1164 1972
OULIN CONTINENTAL SHELL RESOURCE MANAGEMENT MAP, PORT OF COMMERCE
NOAA, GARDEN BASIN, NM152103 CORPUS CHRISTI NM1413 PORT BELLEVUE
NOAA, GARDEN BASIN, NM152103 CORPUS CHRISTI NM1413 PORT BELLEVUE #11 NM1521
MISSISSIPPI CANYON, MOBILE SOUTH #21 NM1618 1975
TEXAS GULF COAST & OFFSHORE FISHING CHART, GALVESTON TO MATAGORDA
TEXAS GULF COAST & OFFSHORE FISHING CHART, MATAGORDA TO GALVESTON
GALVESTON TO MORGAN CITY LA. (1972)
TEXAS GULF COAST & OFFSHORE FISHING CHART, MARINE PASS TO BIG BEND
TIDEWATER FISHING PUB. INC. (1972)



UNITED STATES DEPARTMENT OF INTERIOR
BUREAU OF LAND MANAGEMENT
NEW ORLEANS OUTER CONTINENTAL SHELF OFFICE
WESTERN AND CENTRAL GULF OF MEXICO

VISUAL NO. 4

Prepared in Conjunction With
Proposed OCS Lease Sale No. 47

NATURAL VEGETATION

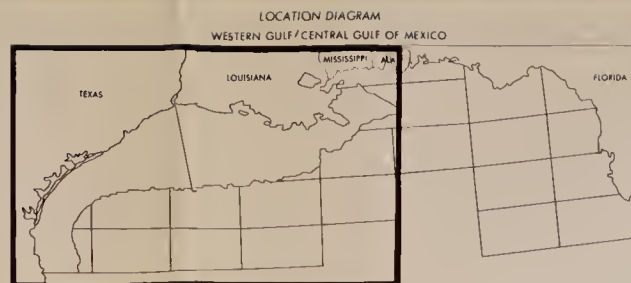
- COUNTY BOUNDARIES
- PRAIRIE GRASSLANDS
- LIVE OAK
- MIXED HARDWOOD AND PINES
- URBAN AND INDUSTRIAL
- MESQUITE
- MIXED BRUSH
- COASTAL STRAND
- OAK-GUM-CYPRESS
- ASH-HACKBERRY-PECAN-COTTONWOOD
- MARSH (SALINE AND BRACKISH)
- INTERMEDIATE MARSH
- FRESH MARSH

ENDANGERED WILDLIFE

- WHOOPING CRANE
- FISH AND WILDLIFE SERVICE-CRITICAL HABITAT WHOOPING CRANE
- ARCTIC PEREGRINE FALCON (MIGRATION ROUTE)
- MISSISSIPPI SANDHILL CRANE
- ATWATER PRAIRIE CHICKEN (AREAS OF NESTING CONCENTRATION)
- REO WOLF
- OCELOT AND JAGUARUNDI
- BALD EAGLE (COUNTIES OF KNOWN NESTING)
- EAGLE NESTS
- MAJOR WINTERING WATERFOWL AREAS
- SEABIRD ROOKERIES
1. LEAST TERN
2. SANDWICH, ROYAL, AND CASPIAN TERN
3. FOSTER'S TERN

UNDERSEA FEATURES

- WATER DEPTH (METERS)
- LOGGERHEAD TURTLE NESTING NO NUMBERS
- COLONIAL NESTING BIRD COLONIES
- WAOING BIRD COLONIES
- BROWN PELICAN ROOKERIES
- WHITE PELICAN
- SHIPWRECKS
- MAJOR INSHORE FISHING AREAS
- HOLES
- REPORTED FISHING AREAS (SHOALS, BANKS, PLATFORMS, ROCKS, OR WRECKS)
- FISHING BANKS
- HERMATYPIC CORAL REEF



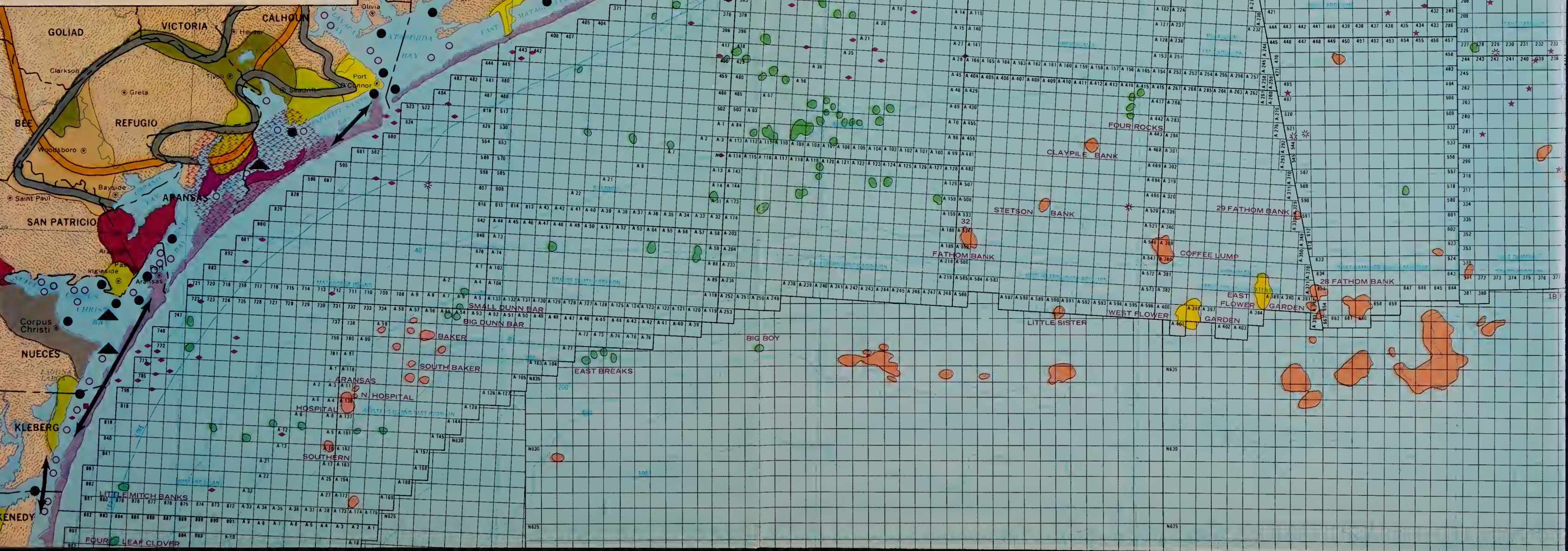
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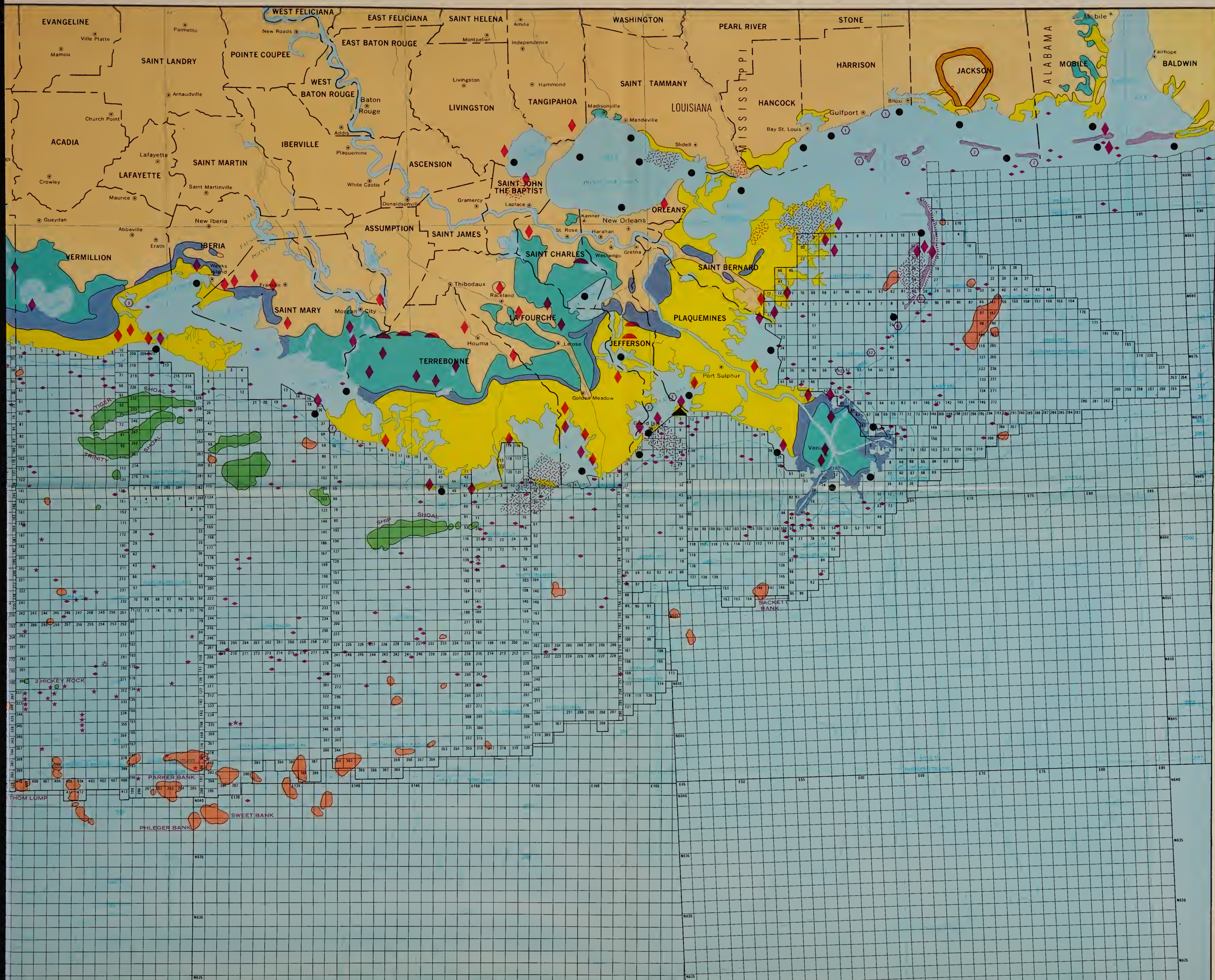
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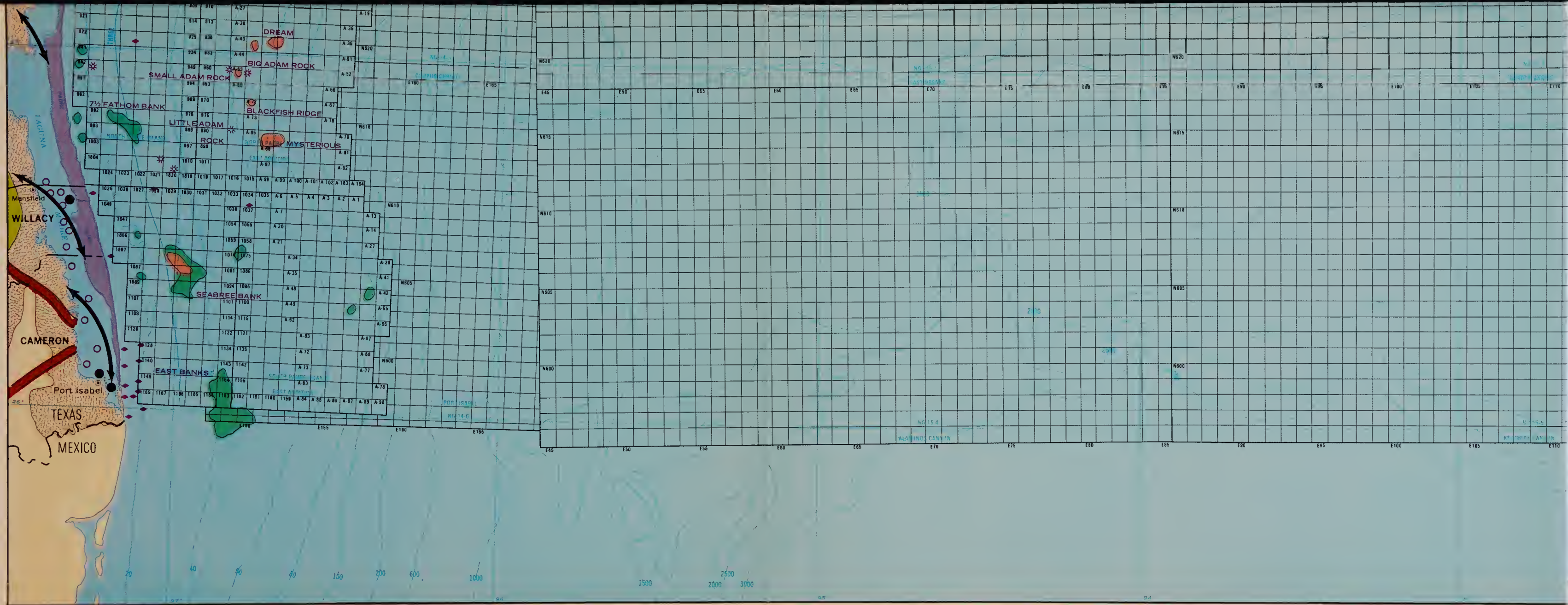
Bureau of Land Management
Library
Denver Service Center

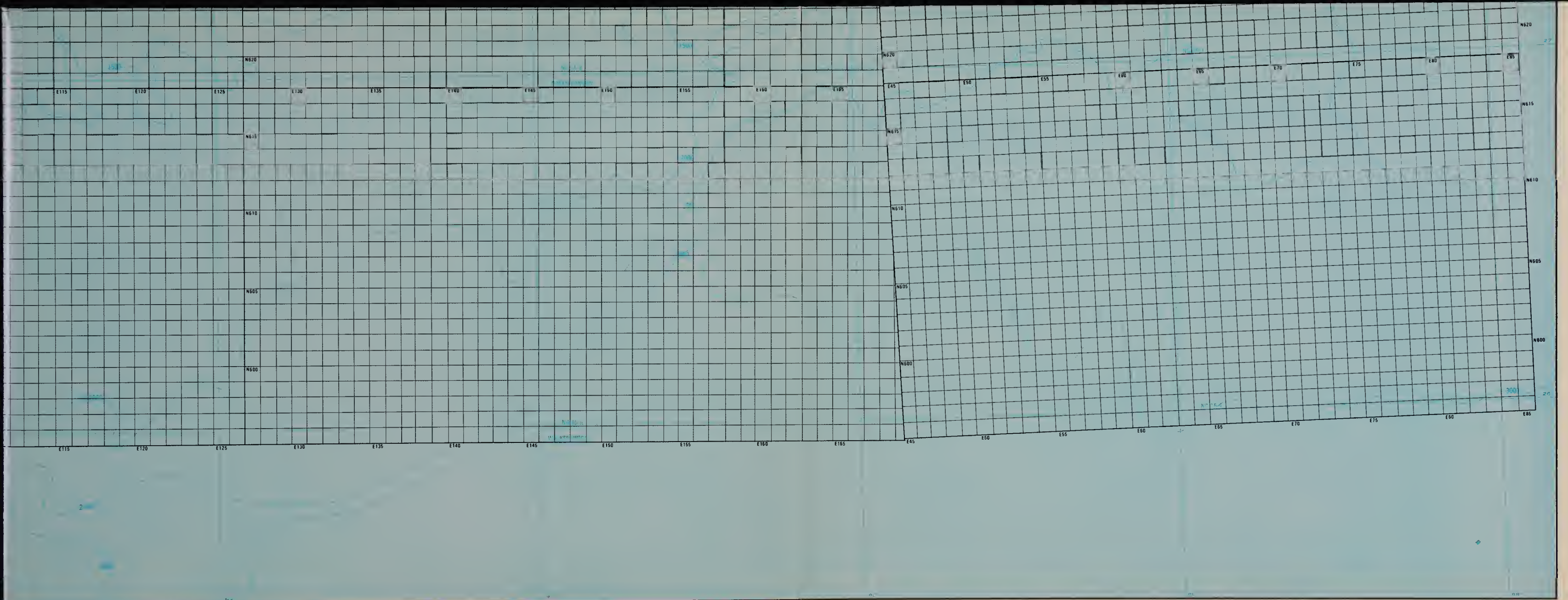
STATUTE MILES 0 10 20 30 40 50 SCALE 1:1,000,000 (APPROX)

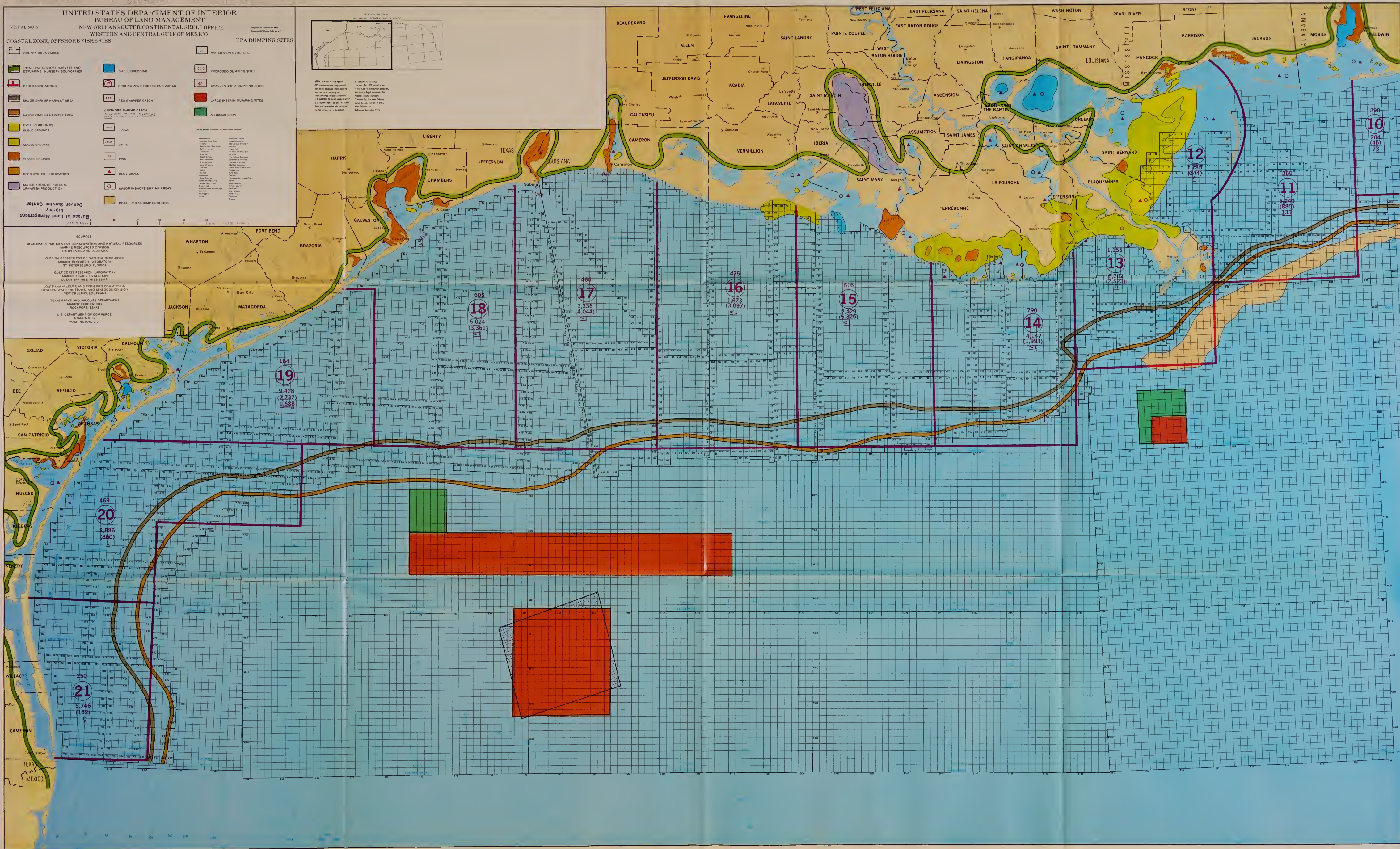
SOURCES:
ALABAMA DEPARTMENT OF CONSERVATION AND NATURAL RESOURCES, MONTGOMERY, ALA.
LOUISIANA WILDLIFE AND FISHERIES COMMISSION, NEW ORLEANS, LA.
MISSISSIPPI GAME AND FISH COMMISSION, JACKSON, MISS.
TEXAS PARKS AND WILDLIFE DEPARTMENT, AUSTIN, TEX.
U.S. DEPARTMENT OF THE INTERIOR, FISH AND WILDLIFE SERVICE, WASHINGTON, D.C.
U.S. DEPARTMENT OF COMMERCE, NOAA, NMFS, WASHINGTON, D.C.
MISSISSIPPI RIVER TO GALVESTON, U.S. DEPT. OF COMMERCE, NOAA, NATIONAL OCEAN SURVEY, C&GS #1116A (1972).
GALVESTON TO RIO GRANDE, U.S. DEPARTMENT OF COMMERCE, NOAA, NATIONAL OCEAN SURVEY, C&GS #1117A (1972).
OUTER CONTINENTAL SHELF RESOURCE MANAGEMENT MAP, U.S. DEPT. OF COMMERCE, NOAA, GARDEN BANKS #NG15.2 (OCS), CORPUS CHRISTI #NG14.3, PORT ISABEL #NG14.6, EAST BREAKS (BAY CITY) #NG15.1, GREEN CANYON (NEW ORLEANS) #NG15.3, MISSISSIPPI CANYON (MOBILE SOUTH #2) #NH16.10, (1975).
TEXAS GULF COAST & OFFSHORE FISHING CHART, GALVESTON TO MATAGORDA; GALVESTON TO ARANSAS PASS, MATAGORDA TO BROWNSVILLE; GALVESTON TO MORGAN CITY, LA. (1972).
TEXAS GULF COAST OFFSHORE FISHING CHART, SABINE PASS TO RIO GRANDE; TIDEWATER FISHING PUB., INC. (1972).











UNITED STATES DEPARTMENT OF INTERIOR
BUREAU OF LAND MANAGEMENT
NEW ORLEANS OUTER CONTINENTAL SHELF OFFICE
WESTERN AND CENTRAL GULF OF MEXICO

VISUAL NO. 5

Prepared in Conjunction With
Proposed OCS Lease Sale No. 47

COASTAL ZONE, OFFSHORE FISHERIES

EPA DUMPING SITES

COUNTY BOUNDARIES

PRINCIPAL INSHORE HARVEST AND
ESTUARINE NURSERY BOUNDARIES

GRID DESIGNATIONS

MAJOR SHRIMP HARVEST AREA

MAJOR FINFISH HARVEST AREA

OYSTER GROUNDS
PUBLIC GROUNDS

LEASED GROUNDS

CLOSED GROUNDS

SECO OYSTER RESERVATION

MAJOR AREAS OF NATURAL
CRAWFISH PRODUCTION

SHELL DREDGING

GRID NUMBER FOR FISHING ZONES

REO SNAPPER CATCH

OFFSHORE SHRIMP CATCH
(Average of 1972-1973 and 1974 by offshore grid
zone for brown and white shrimp in thousands of
pounds)

BROWN

WHITE

PINK

BLUE CRABS

MAJOR INSHORE SHRIMP AREAS

ROYAL REO SHRIMP GROUNDS

WATER DEPTH (METERS)

PROPOSED DUMPING SITES

SMALL INTERIM DUMPING SITES

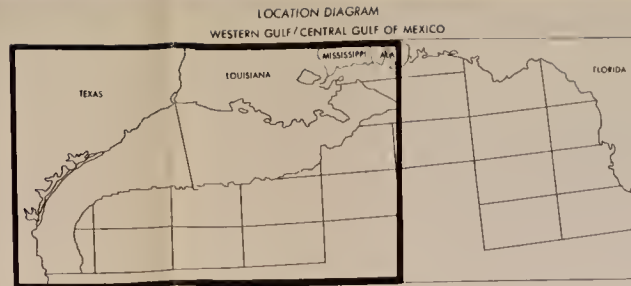
LARGE INTERIM DUMPING SITES

DUMPING SITES

Fishes (Major commercial and sport species).

Morone chrysops
Spotted Sea Trout
Cynoscion nebulosus
Red Drum (Red Fish)
Cynoscion regalis
Yellowtail Snapper
Grouper
Black Drum
Red Snapper
Sheepshead
King Whiting
Jewfish
Cobia
Mullet
Bluefish
Blue Runner
Spanish Mackerel
White Sea Trout
Scorpaenidae
Cattfish and Butheids
Garfish
Pompano
Tuna

Crab (Jack)
King Mackerel
Mangrove Snapper
Bottus
Ogishfish
Yellowtail Snapper
Grunts
Vermilion Snapper
Spanish Sardines
Thread Herring
Mutton Snapper
Sand Perch (Meatballs)
Tigerfish
Sea Bass
Tarpon
Tentacled (Ladfish)
Spot
Blue Martin
White Martin
Sailfish
Barracuda
Amberjack
Dolphin
Snook



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New Orleans, LA
Published November 1976

SOURCES:

ALABAMA DEPARTMENT OF CONSERVATION AND NATURAL RESOURCES
MARINE RESOURCES DIVISION
DAUPHIN ISLAND, ALABAMA

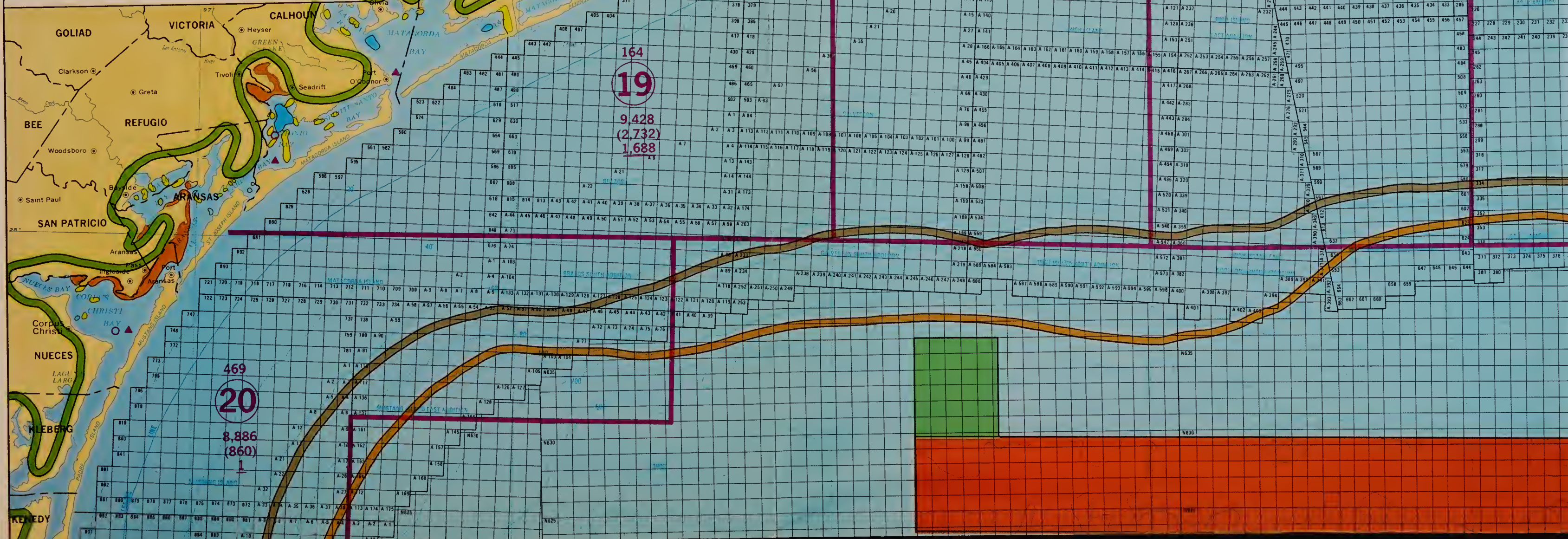
FLORIDA DEPARTMENT OF NATURAL RESOURCES
MARINE RESEARCH LABORATORY
ST. PETERSBURG, FLORIDA

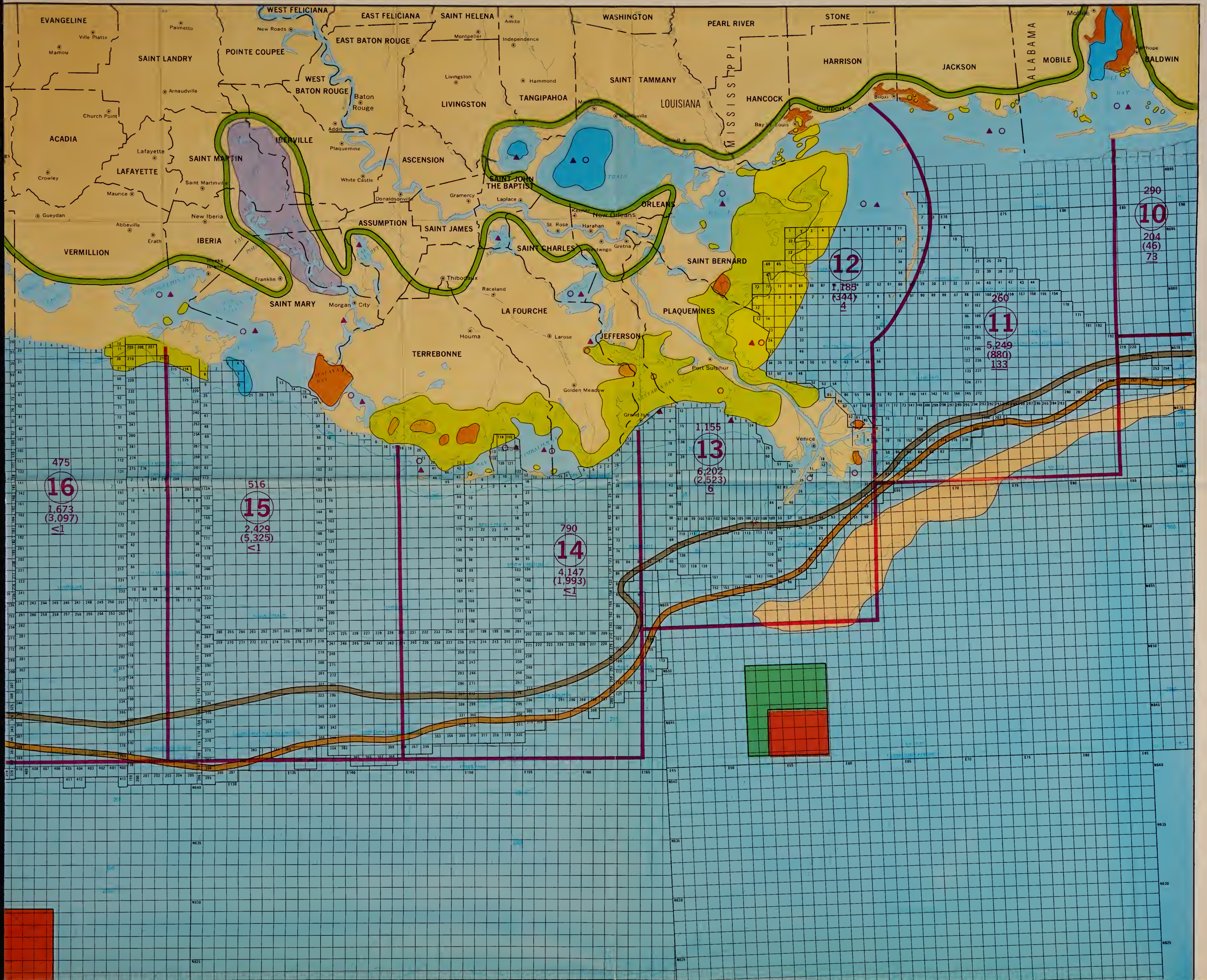
GULF COAST RESEARCH LABORATORY
MARINE FISHERIES SECTION
OCEAN SPRINGS, MISSISSIPPI

LOUISIANA WILDLIFE AND FISHERIES COMMISSION
OYSTERS, WATER BOTTOMS, AND SEAFOODS DIVISION
NEW ORLEANS, LOUISIANA

TEXAS PARKS AND WILDLIFE DEPARTMENT
MARINE LABORATORY
ROCKPORT, TEXAS

U.S. DEPARTMENT OF COMMERCE
NOAA/NMFS
WASHINGTON, D.C.





16
1,673
(3,097)
≤1

15
2,429
(5,325)
≤1

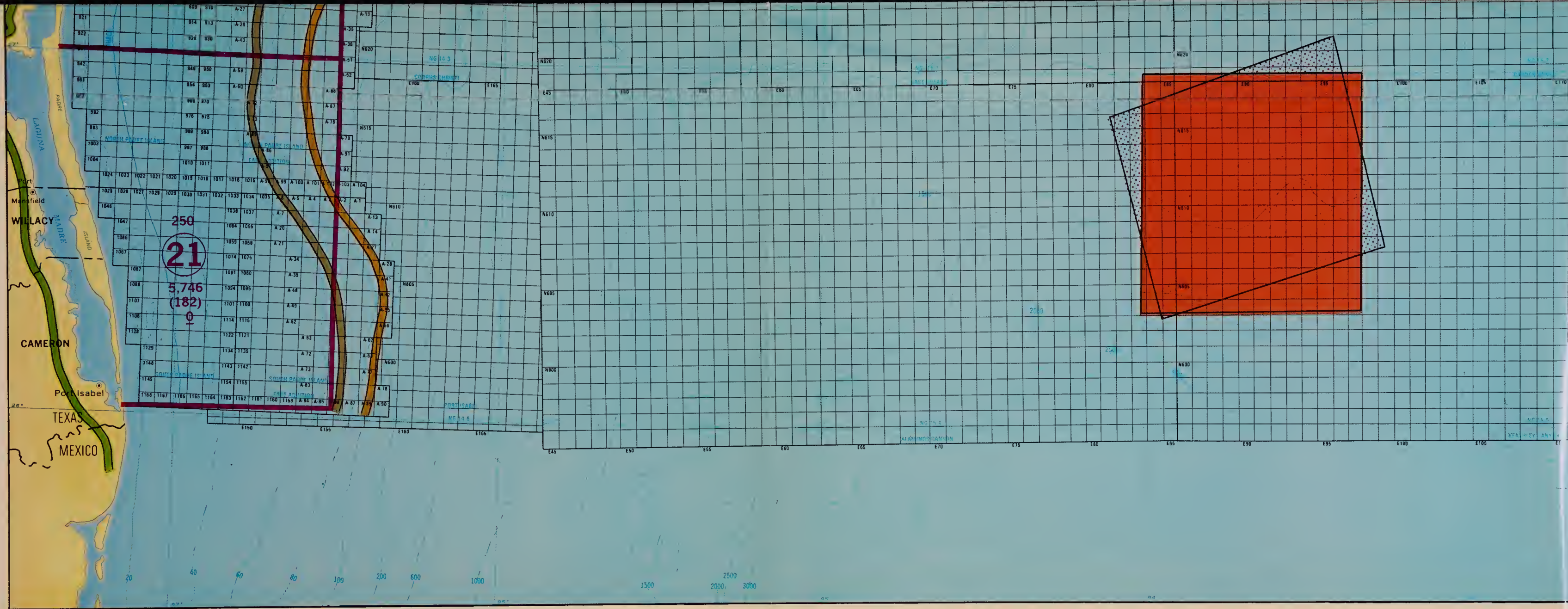
14
4,147
(1,993)
≤1

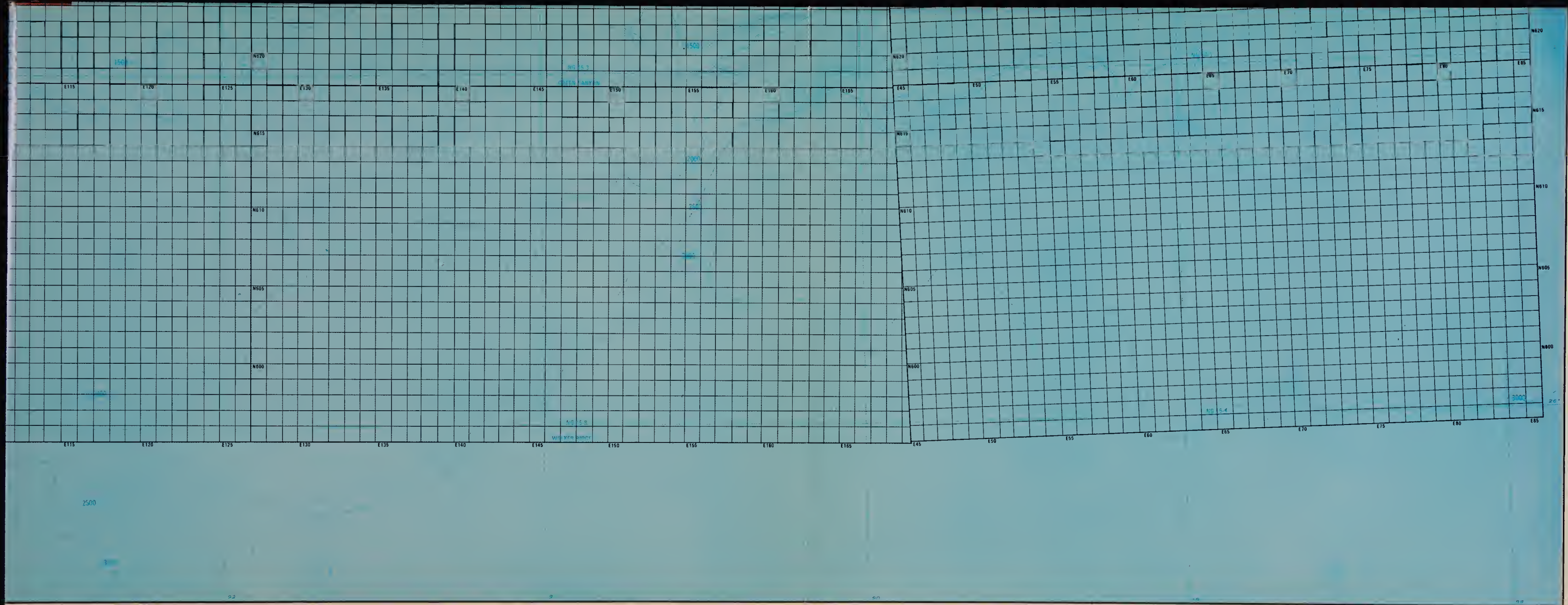
13
6,202
(2,523)
6

12
1,185
(344)
4

11
5,249
(880)
133

10
290
204
(46)
73





#1014305138

ID: 88076061

TD 195-P4 G856 1977 v.2

VISUAL NO. 6

UNITED STATES DEPARTMENT OF INTERIOR
BUREAU OF LAND MANAGEMENT
NEW ORLEANS OUTER CONTINENTAL SHELF OFFICE
WESTERN AND CENTRAL GULF OF MEXICO

Prepared in Conjunction With
Proposed OCS Lease Sale No. 47

SURFACE CURRENTS AND ANNUAL WINDS

COUNTY BOUNDARIES

TAIL OF ARROW INDICATES THE DIRECTION
FROM WHICH THE WIND IS BLOWINGANNUAL CURRENT ROSE FOR 1° SQUARE
(NAVOCEANO, 1973)

MEAN SPEED IN KNOTS

PERCENT OF FREQUENCY
(1/20° = 1%)ANNUAL WIND ROSE FOR
COASTAL CITIES (SSMO, 1975)

MEAN SPEED IN KNOTS

PERCENT OF FREQUENCY
(1/10° = 1%)

GENERAL SURFACE CIRCULATION (NOWLIN, 1971)

FEBRUARY

AUGUST

STATUTE MILES 0 10 20 30 40 50 SCALE 1:1,000,000 (APPROX)

GENERALIZED LAND USE

60 WATER DEPTH (METERS)

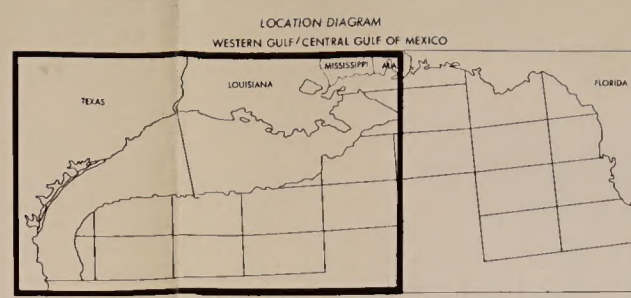
RESIDENTIAL
INDUSTRIAL AND COMMERCIAL

AGRICULTURAL AND GRAZING

WOODLAND

MARSH BARREN UNDEVELOPED

PUBLIC AND SEMI PUBLIC

Bureau of Land Management
Library
Denver Service Center

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Prepared by the New Orleans
Outer Continental Shelf Office
New Orleans, La.
Published November 1976

SOURCES:

NOWLIN, W.D. 1971. WATER MASSES AND GENERAL CIRCULATION
OF THE GULF OF MEXICO.OCEANOLOGY 6(2):28-33 NAVAL OCEANOGRAPHIC OFFICE, 1973
ONE DEGREE DIVISIONS OF MARSDEN SQUARES 081 AND 082SUMMARY OF SYNOPSIS METEOROLOGICAL OBSERVATIONS
MAY, 1975 U.S. NAVAL WEATHER SERVICE COMMAND
VOLUME 4 ATLANTIC AND GULF COASTS AREAS 27, 28, AND 29GULF REGIONAL PLANNING COMMISSION, 1973. REGIONAL LAND USE PLAN FOR
HANCOCK, HARRISON, PEARL RIVER, AND JACKSON COUNTIES, MISSISSIPPI

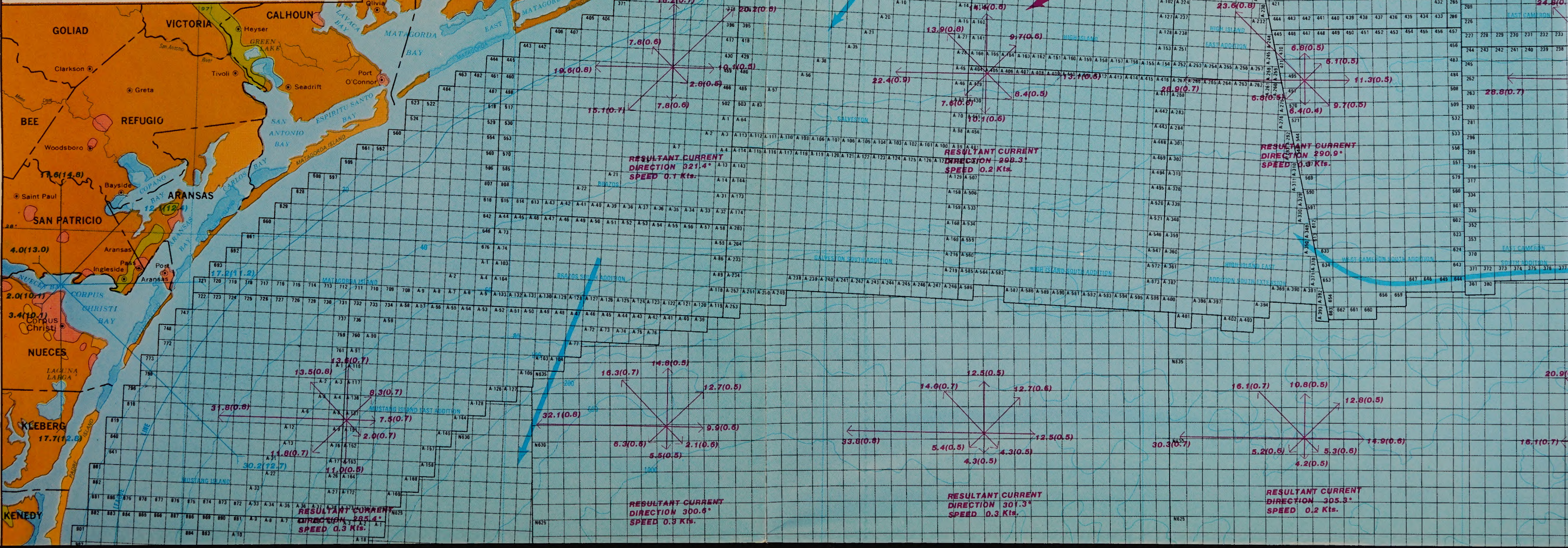
U.S.G.S. 1970 MOBILE TOPOGRAPHIC SHEET 1:250,000 SCALE

SOUTH ALABAMA REGIONAL PLANNING COMMISSION, 1968. LAND USE.

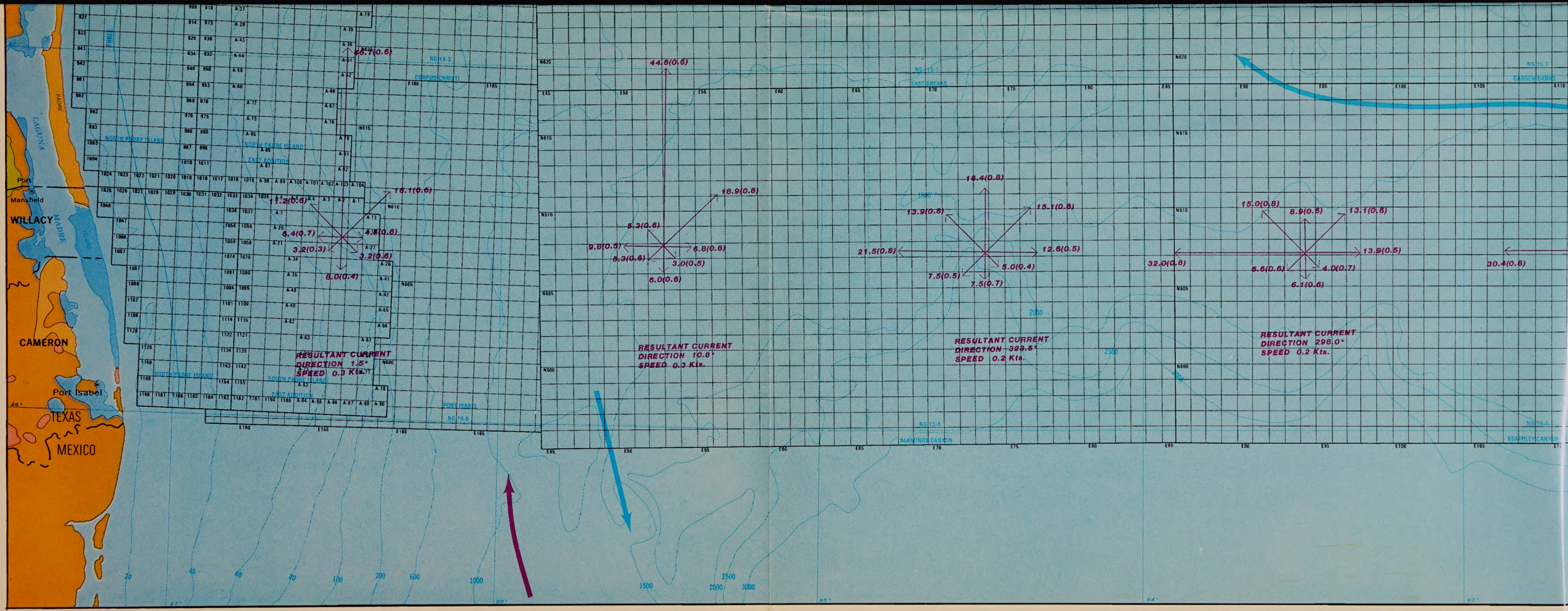
U.S.G.S. 1970. MOBILE AND PENSACOLA TOPOGRAPHIC SHEETS, 1:250,000 SCALE.

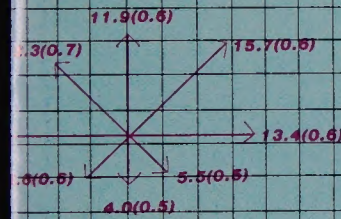
U.S. ARMY CORPS OF ENGINEERS, 1973.
INVENTORY OF BASIC ENVIRONMENTAL DATA. SOUTH LOUISIANA.IMPERIAL CALCASIEU REGIONAL PLANNING AND
DEVELOPMENT COMMISSION, 1974. EXISTING LAND USE STUDY.STATE OF TEXAS, 1975. CURRENT LAND USE MAP: LOWER COASTAL REGION,
GENERAL LAND OFFICE COASTAL MGT. PROGRAM.

ACADIANA PLANNING AND DEVELOPMENT DISTRICT, 1974. ACADIANA LAND USE MAP

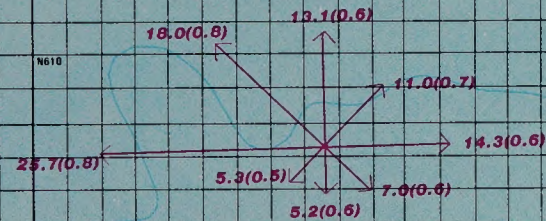




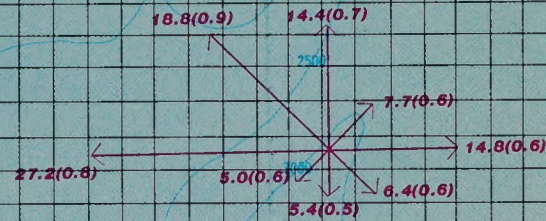




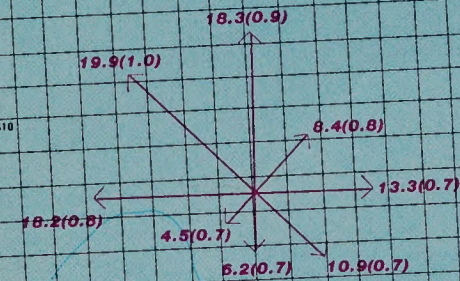
RESULTANT CURRENT
DIRECTION 307.6°
SPEED 0.2 Kts.



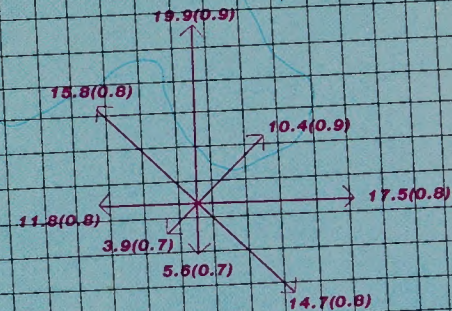
RESULTANT CURRENT
DIRECTION 316.3°
SPEED 0.2 Kts.



RESULTANT CURRENT
DIRECTION 310.6°
SPEED 0.3 Kts.



RESULTANT CURRENT
DIRECTION 331.7°
SPEED 0.2 Kts.



RESULTANT CURRENT
DIRECTION 21.7°
SPEED 0.2 Kts.